

**2004 Caterpillar 12H GRM1008**



|                     |   |                                 |              |                      |          |            |
|---------------------|---|---------------------------------|--------------|----------------------|----------|------------|
| <b>Make</b>         | Caterpillar   |                                 | <b>Model</b> | 12H                  |          |            |
| <b>Year</b>         | 2004  | <b>Hours</b>                    | 36483        |                      | As at    | 05/08/2019 |
| <b>Mileage</b>      |   |                                 |              | km                   | As at    | 05/08/2019 |
| <b>Serial/VIN</b>   | CAT0012HECBK00677   |                                 |              | <b>Engine Serial</b> | 4ZF15261 |            |
| <b>Details</b>      | 2004 Caterpillar 12H Grader asset # GRM1008.<br>This Caterpillar 12H Motor Grader was parked up in October 2019 and the work orders report can be found in the GES Equipment Report PDF on the auction page for this asset. This unit is being offered for sale via online auction and is sold on an "As Is" basis running to drive on to buyers transport ex Tanami Mine site, Northern Territory. |                                 |              |                      |          |            |
| <b>Asking price</b> | AUD   | Under review - call for pricing |              |                      |          |            |
| <b>Ex site</b>      | Australia, Northern Territory, Tanami   |                                 |              |                      |          |            |

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| <b>Service history</b> | Site maintenance team confirmed this unit was Running at time of decom. |
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**For further details, to make an offer or book an inspection, contact  
Global Equipment Solutions on Office: 08 9201 1142**











| Code | Date       | Asset ID                                     | Description  |        |
|------|------------|--|--|--------|
| 40LH | 7/10/2019  | 7:30:00 2060-10-70-20-GRM1008-HYSY-HSVV      | MN 21496587 Replace leaking hydraulic hose           |        |
| 40LH | 2/10/2019  | 7:30:00 2060-10-70-20-GRM1008                | SG 12169037 250H Service Grader 12H GRM1008          |        |
| 40LH | 23/09/2019 | 7:30:00 2060-10-70-20-GRM1008                | SG 12126341 500H Service Grader 12H GRM1008          |        |
| 40LH | 12/09/2019 | 0:00:00 2060-10-70-20-GRM1008-DRTR           | SG 12041460 Component Change Uni Joint - Drive Shaft |        |
| 40LH | 12/09/2019 | 0:00:00 2060-10-70-20-GRM1008-ENSY-ECSY      | SG 12041458 Component Change Alternator              |        |
| 40LH | 12/09/2019 | 0:00:00 2060-10-70-20-GRM1008-ENSY-ECSY      | SG 12041459 Component Change Starter Motor           |        |
| 40LH | 12/09/2019 | 0:00:00 2060-10-70-20-GRM1008-HYSY           | SG 12041461 Reseal Articulation Cyl Pos 1            |        |
| 40LH | 12/09/2019 | 0:00:00 2060-10-70-20-GRM1008-HYSY           | SG 12041462 Reseal Articulation Cyl Pos 2            |        |
| 40LH | 2/09/2019  | 7:30:00 2060-10-70-20-GRM1008                | MN 21559171 Decommission GRM1008                     | Y19W36 |
| 40LH | 12/08/2019 | 6:30:00 2060-10-70-20-GRM1008-HYSY           | SG 11903505 Reseal Accumulators Blade Cushion        |        |
| 40LH | 12/08/2019 | 6:30:00 2060-10-70-20-GRM1008-HYSY           | SG 11903506 Component Change Accumulator (Steering)  |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008                | SG 11903470 Component Change Air Compressor Governor |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008                | SG 11903471 Component Change Tandem Oscill Brgs Pos  |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008                | SG 11903472 Component Change Tandem Oscillbrgs Pos 2 |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008                | SG 11903473 Component Change Front Spindle Bearings  |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008                | SG 11903474 Component Change Front Spindle Bearings  |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008                | SG 11903475 Component Change Park Brake Control Valv |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008                | SG 11903507 Reseal Blade Lift Cylinder Pos 1         |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008                | SG 11903508 Component Change Blade Lift Arm Yoke Brg |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008                | SG 11903509 Component Change Blade Lift Arm Yoke Brg |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008                | SG 11903510 Component Change Lift Cyl Pivot Brg Pos  |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008                | SG 11903511 Component Change Lift Cyl Pivot Brg Pos  |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008                | SG 11903512 Reseal Blade Sideshift Cylinder          |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008                | SG 11903514 Component Change Air Compressor          |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-ENSY-COSY      | SG 11903469 Component Change Water Pump              |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-ENSY-ETBE      | SG 11903462 Component Change Engine Mounts           |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-ENSY-FUSY      | SG 11903463 Component Change Fuel Injector           |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-ENSY-FUSY      | SG 11903464 Component Change Fuel Injector           |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-ENSY-FUSY      | SG 11903465 Component Change Fuel Injector           |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-ENSY-FUSY      | SG 11903466 Component Change Fuel Injector           |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-ENSY-FUSY      | SG 11903467 Component Change Fuel Injector           |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-ENSY-FUSY      | SG 11903468 Component Change Fuel Injector           |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-ENSY-IKSY      | SG 11903461 Component Change Turbo                   |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-HYSY           | SG 11903477 Reseal Blade Centreshift Cylinder        |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-HYSY           | SG 11903478 Reseal Blade Lift Cylinder Pos 2         |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-HYSY           | SG 11903479 Reseal Blade Tip Cylinder                |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-HYSY           | SG 11903500 Reseal Steer Cylinder Pos 1              |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-HYSY           | SG 11903501 Reseal Steer Cylinder Pos 2              |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-HYSY           | SG 11903502 Reseal Ripper Cylinder                   |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-HYSY           | SG 11903503 Reseal Wheel Lean Cylinder               |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-HYSY           | SG 11903504 Reseal Blade Centreshift Lock Cyl        |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-HYSY-STSY      | SG 11903476 Component Change Tie Rod Ends            |        |
| 40LH | 12/08/2019 | 7:30:00 2060-10-70-20-GRM1008-OPCB-ACSY      | SG 11903513 Component Change Aircon Components       |        |
| 40LH | 11/08/2019 | 7:30:00 2060-10-70-20-GRM1008-IMAT           | MI 21550307 Replace cutting edges                    |        |
| 40LH | 31/07/2019 | 7:30:00 2060-10-70-20-GRM1008-IMAT           | MI 21542272 Re-shim circle drive                     |        |
| 40LH | 17/07/2019 | 7:30:00 2060-10-70-20-GRM1008                | SG 12106596 250H Service Grader 12H GRM1008          | Y19W29 |
| 40LH | 7/07/2019  | 7:30:00 2060-10-70-20-GRM1008-IMAT           | MI 21525465 Repair Circle drive                      |        |
| 40LH | 5/07/2019  | 7:30:00 2060-10-70-20-GRM1008-HYSY-HSVV      | MI 21524820 leaking wheel lean hose                  |        |
| 40LH | 28/06/2019 | 7:30:00 2060-10-70-20-GRM1008-FRBO-ECSY      | MI 21520345 Replace failed blade light               |        |
| 40LH | 25/06/2019 | 7:30:00 2060-10-70-20-GRM1008                | SG 11826690 12000H C/O Air Dryer Assy 12H GRM1008    |        |
| 40LH | 25/06/2019 | 7:30:00 2060-10-70-20-GRM1008-HYSY           | SG 11826691 Reseal Blade Swivel Unit                 |        |
| 40LH | 25/06/2019 | 7:30:00 2060-10-70-20-GRM1008-HYSY-HYCY      | SG 11826692 Reseal Hyd Control Valve Pos 1           |        |
| 40LH | 25/06/2019 | 7:30:00 2060-10-70-20-GRM1008-HYSY-HYCY      | SG 11826693 Reseal Hyd Control Valve Pos 2           |        |
| 40LH | 25/06/2019 | 7:30:00 2060-10-70-20-GRM1008-HYSY-HYCY      | SG 11826694 Component Change Articulation Cylinder   |        |
| 40LH | 25/06/2019 | 7:30:00 2060-10-70-20-GRM1008-HYSY-HYCY      | SG 11826695 Component Change Articulation Cylinder   |        |
| 40LH | 19/06/2019 | 7:30:00 2060-10-70-20-GRM1008-DRTR-DIFF      | MI 21513845 Air leak causing brakes dragging         |        |
| 40LH | 16/06/2019 | 7:30:00 2060-10-70-20-GRM1008                | SG 12095498 1000H Service Grader 12H GRM1008         | Y19W24 |
| 40LH | 13/06/2019 | 7:30:00 2060-10-70-20-GRM1008-IMAT           | MI 21510462 c/o cutting edges                        |        |
| 40LH | 12/06/2019 | 7:30:00 2060-10-70-20-GRM1008-FRBO-ECSY      | MI 21509409 Repair Front Lights                      |        |
| 40LH | 5/06/2019  | 7:30:00 2060-10-70-20-GRM1008-ENSY-ECSY      | MI 21504663 AFFF alarm fault                         |        |
| 40LH | 29/05/2019 | 7:30:00 2060-10-70-20-GRM1008-IMAT-BLAS      | MI 21500242 Replace lower blade slides               |        |
| 40LH | 27/05/2019 | 7:30:00 2060-10-70-20-GRM1008-IMAT-BLAS      | MI 21498729 C/O Cutting edges                        |        |
| 40LH | 22/05/2019 | 19:30:00 2060-10-70-20-GRM1008               | SG 12076109 250H Service Grader 12H GRM1008          | Y19W21 |
| 40LH | 21/05/2019 | 7:30:00 2060-10-70-20-GRM1008-DRTR-TAN1-WHR1 | MI 21495160 C/O Pos 1 tyre                           |        |
| 40LH | 9/05/2019  | 7:30:00 2060-10-70-20-GRM1008-IMAT-MOLD      | MI 21487211 GRM1008 C/O worn cutting edges           |        |
| 40LH | 30/04/2019 | 7:30:00 2060-10-70-20-GRM1008-IMAT-BLAS      | MI 21480596 Replace Blade Slides                     |        |
| 40LH | 30/04/2019 | 19:30:00 2060-10-70-20-GRM1008               | SG 12058610 500H Service Grader 12H GRM1008          | Y19W18 |

|          |            |          |                                      |    |          |  |        |
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| 40LH     | 29/04/2019 | 7:30:00  | 2060-10-70-20-GRM1008-FRBO-ARTC      | SG | 11772567 | Component Change Centre Hitch            |        |
| 40LH     | 25/04/2019 | 0:00:00  | 2060-10-70-20-GRM1008                | MI | 21476913 | C/O P3 tyre                              |        |
| 40LH     | 15/04/2019 | 7:30:00  | 2060-10-70-20-GRM1008                | MN | 21459927 | inspect/repair turbo leak                |        |
| 40LH     | 11/04/2019 | 7:30:00  | 2060-10-70-20-GRM1008                | SG | 12033918 | 250H Service Grader 12H GRM1008          | Y19W15 |
| 40LH     | 11/04/2019 | 7:30:00  | 2060-10-70-20-GRM1008-IMAT           | MI | 21467216 | C/O worn cutting edges                   |        |
| 40LH     | 10/04/2019 | 7:30:00  | 2060-10-70-20-GRM1008-IMAT-CIRC      | MI | 21465688 | Circle drive not working                 |        |
| 40LH     | 8/04/2019  | 7:30:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 21464046 | Replace Blade Slides                     |        |
| 40LH     | 7/04/2019  | 4:49:55  | 2060-10-70-20-GRM1008-HYSY-HYPU      | MI | 21461664 | Replace Hydraulic Pump Drive Shaft       |        |
| 40LH     | 7/04/2019  | 7:30:00  | 2060-10-70-20-GRM1008-ENSY-IKSY      | MI | 21461663 | C/O Turbocharger                         |        |
| 40LH     | 25/03/2019 | 7:30:00  | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 21454177 | i/r hyd oil leak                         |        |
| 40LH     | 22/03/2019 | 7:30:00  | 2060-10-70-20-GRM1008-OPCB-ACSY      | MN | 21430651 | Reseal evaporator box                    | Y19W12 |
| 40LH     | 21/03/2019 | 19:30:00 | 2060-10-70-20-GRM1008                | SG | 12014320 | 2000H Service Grader 12H GRM1008         | Y19W12 |
| 40LH     | 6/03/2019  | 7:30:00  | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 21440986 | Replace cutting edges                    |        |
| 40LH     | 27/02/2019 | 19:30:00 | 2060-10-70-20-GRM1008                | SG | 11975762 | 250H Service Grader 12H GRM1008          | Y19W09 |
| 40LH     | 26/02/2019 | 7:30:00  | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 21435131 | Replace work light                       |        |
| 40LH     | 25/02/2019 | 7:30:00  | 2060-10-70-20-GRM1008-IMAT-CIRC      | MI | 21433969 | Repair Circle Drive Motor Leak           |        |
| 40LH     | 22/02/2019 | 7:30:00  | 2060-10-70-20-GRM1008-ENSY           | MI | 21432128 | Air filter housing missing bolts         |        |
| 40LH     | 22/02/2019 | 7:30:00  | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 21432622 | Insp/Repair Reverse Light Inoperative    |        |
| 40LH     | 21/02/2019 | 7:30:00  | 2060-10-70-20-GRM1008-IMAT-SCAR      | MI | 21431915 | Re[place ripper mount pin                |        |
| 40LH     | 19/02/2019 | 7:30:00  | 2060-10-70-20-GRM1008-FRBO-AXAS-WHR1 | MN | 21417119 | SOS ALERT - CHANGE BOTH FRONT HUB OILS   | Y19W08 |
| 40LH-TAM | 14/02/2019 | 7:30:00  | 2060-10-70-20-GRM1008-DRTR-TAN1-WHR3 | MI | 21426615 | Replace tyres pos3,4,5&6                 |        |
| 40LH     | 11/02/2019 | 4:32:29  | 2060-10-70-20-GRM1008-FRBO           | MI | 21421887 | replace damaged circle drive gearbox     |        |
| 40LH     | 27/01/2019 | 7:30:00  | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 21413683 | Parkbrake Will Not Release               |        |
| 40LH     | 15/01/2019 | 6:30:00  | 2060-10-70-20-GRM1008-FRBO           | MI | 21403129 | Repair Air Leak at Drier                 |        |
| 40LH     | 12/01/2019 | 7:30:00  | 2060-10-70-20-GRM1008-DRTR-TAN2      | MI | 21403128 | Repair P6 Tyre Leaking                   |        |
| 40LH     | 11/01/2019 | 7:30:00  | 2060-10-70-20-GRM1008-HYSY-HSVV      | MN | 21382002 | Replace leaking hoses                    | Y19W02 |
| 40LH     | 11/01/2019 | 7:30:00  | 2060-10-70-20-GRM1008-IMAT-CIRC      | MN | 21294139 | C/O Circle drive motor                   | Y19W02 |
| 40LH     | 11/01/2019 | 7:30:00  | 2060-10-70-20-GRM1008-OPCB           | MI | 21386594 | Door Hinge Rivets Broken                 | Y19W02 |
| 40LH     | 11/01/2019 | 7:30:00  | 2060-10-70-20-GRM1008-OPCB           | MN | 21398076 | Replace operators seat                   | Y19W02 |
| 40LH     | 10/01/2019 | 7:30:00  | 2060-10-70-20-GRM1008-DRTR-TAN1      | MI | 21401590 | Replace P5 Tyre                          |        |
| 40LH     | 10/01/2019 | 19:30:00 | 2060-10-70-20-GRM1008                | SG | 11883931 | 500H Service Grader 12H GRM1008          | Y19W02 |
| 40LH     | 9/01/2019  | 7:30:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 21401526 | C/O Cutting Edges                        |        |
| 40LH     | 2/01/2019  | 0:00:00  | 2060-10-70-20-GRM1008-HYSY-ECSY      | MI | 21396634 | blade cushioning fault                   |        |
| 40LH     | 14/12/2018 | 7:30:00  | 2060-10-70-20-GRM1008-OPCB-ACSY      | SG | 11854854 | Component Change Aircon Compressor       |        |
| 40LH     | 12/12/2018 | 7:30:00  | 2060-10-70-20-GRM1008-ENSY-FUSY      | MI | 21295751 | SOS ALERT - URGENT - Check Fuel Dilution |        |
| 20EL     | 10/12/2018 | 6:30:00  | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 21382958 | Install prox screen into GRM1008         |        |
| 40LH     | 10/12/2018 | 7:30:00  | 2060-10-70-20-GRM1008                | MI | 21383383 | C/O Blown hose                           |        |
| 40LH     | 7/12/2018  | 7:30:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 21381811 | C/O wear slides                          |        |
| 40LH     | 3/12/2018  | 7:30:00  | 2060-10-70-20-GRM1008-OPCB-ACSY      | MI | 21378574 | Repair Air Conditioner                   |        |
| 40LH     | 23/10/2018 | 7:30:00  | 2060-10-70-20-GRM1008-HYSY-HSVV      | MN | 21294127 | C/O Leaking Pump Hose                    |        |
| 40LH     | 22/10/2018 | 7:30:00  | 2060-10-70-20-GRM1008-OPCB-ECSY      | MN | 21287371 | C/O Centershift pin switch               | Y18W43 |
| 40LH     | 6/10/2018  | 7:30:00  | 2060-10-70-20-GRM1008-ENSY-ECSY      | MI | 21339397 | C/O Batteries                            |        |
| 40LH     | 3/10/2018  | 7:30:00  | 2060-10-70-20-GRM1008                | SG | 11830396 | 250H Service Grader 12H GRM1008          | Y18W40 |
| 40LH     | 3/10/2018  | 7:30:00  | 2060-10-70-20-GRM1008-FRBO-AXAS      | MN | 21291356 | Replace Worn P2 Steer Cylinder           | Y18W40 |
| 40LH     | 25/09/2018 | 0:00:00  | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 21331830 | cutting edges                            |        |
| 40LH     | 19/09/2018 | 7:30:00  | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 21328143 | Replace hydraulic hose                   |        |
| 40LH-TAM | 14/09/2018 | 7:30:00  | 2060-10-70-20-GRM1008-DRTR-TAN2-WHR4 | MI | 21324698 | C/O Position 4 foreign object            |        |
| 40LH     | 10/09/2018 | 7:30:00  | 2060-10-70-20-GRM1008-DRTR-TRAN      | MN | 21318200 | SOS ALERT - CHANGE TRANSMISSION OIL      | Y18W37 |
| 40LH     | 6/09/2018  | 7:30:00  | 2060-10-70-20-GRM1008                | MN | 21053309 | 6000HR PCR                               |        |
| 40LH     | 4/09/2018  | 7:30:00  | 2060-10-70-20-GRM1008-FRBO-AXAS-WHR1 | MN | 21280707 | C/O Front Wheel Hub Bearings/            | Y18W36 |
| 40LH     | 21/08/2018 | 7:30:00  | 2060-10-70-20-GRM1008-ENSY-COSY      | SG | 11727600 | Component Change Engine Thermostat       |        |
| 40LH     | 21/08/2018 | 7:30:00  | 2060-10-70-20-GRM1008-FRBO           | MN | 21238248 | C/O brake tube assy                      |        |
| 40LH     | 21/08/2018 | 7:30:00  | 2060-10-70-20-GRM1008-OPCB-ECSY      | MN | 21246465 | C/O lower Front and High Rear wiper moto |        |
| 40LH     | 18/08/2018 | 7:30:00  | 2060-10-70-20-GRM1008-OPCB           | MN | 21226845 | Replace Winscreen Washer Nozzles         |        |
| 40LH     | 16/08/2018 | 19:30:00 | 2060-10-70-20-GRM1008-OPCB-ECSY      | MN | 21290808 | Connect 2 Way Radio Speaker              | Y18W33 |
| 40LH     | 28/07/2018 | 7:30:00  | 2060-10-70-20-GRM1008                | MN | 21229886 | CO muldbord light switch                 | Y18W30 |
| 40LH     | 28/07/2018 | 7:30:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 21290995 | C/O Cutting Edges & Slides               |        |
| 40LH     | 27/07/2018 | 7:30:00  | 2060-10-70-20-GRM1008-HYSY           | MI | 21290233 | replace damaged blade side shift hose    |        |
| 40LH     | 27/07/2018 | 19:30:00 | 2060-10-70-20-GRM1008                | SG | 11806491 | 1000H Service Grader 12H GRM1008         | Y18W30 |
| 40LH     | 20/07/2018 | 0:00:00  | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 21285813 | Air hose U/S                             |        |
| 40LH-TAM | 19/07/2018 | 7:30:00  | 2060-10-70-20-GRM1008-DRTR-TAN1-WHR3 | MI | 21284988 | C/o position 5 tyre - puncture           |        |
| 40LH     | 18/07/2018 | 7:30:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 21284193 | Blade slide C/O                          |        |
| 40LH     | 14/07/2018 | 7:30:00  | 2060-10-70-20-GRM1008-DRTR-ECSY      | MN | 21281502 | Replace Isolator                         |        |
| 40LH     | 12/07/2018 | 7:30:00  | 2060-10-70-20-GRM1008-FRBO-AXAS-WHR2 | MN | 21271717 | SOS ALERT - INSPECT FRONT HUBS/OIL       | Y18W28 |
| 40LH     | 11/07/2018 | 7:30:00  | 2060-10-70-20-GRM1008-FRBO-AXAS      | MI | 21279226 | Reposition Front Axle Pivot Pins         |        |
| 40LH     | 5/07/2018  | 0:00:00  | 2060-10-70-20-GRM1008-OPCB-ACSY      | MI | 21275766 | A/C fault                                |        |
| 40LH     | 30/06/2018 | 7:30:00  | 2060-10-70-20-GRM1008-HYSY-HSVV      | MN | 21243335 | GRM1008 - Rectify oil leak               | Y18W26 |
| 40LH     | 30/06/2018 | 7:30:00  | 2060-10-70-20-GRM1008-IMAT           | MI | 21272038 | Adjust circle drive                      |        |



|      |            |          |                                      |    |          |  |        |
|------|------------|----------|--------------------------------------|----|----------|--|--------|
| 40LH | 29/06/2018 | 7:30:00  | 2060-10-70-20-GRM1008-DRTR-TRAN      | MI | 21270278 | transmission lost gears                  |        |
| 40LH | 29/06/2018 | 19:30:00 | 2060-10-70-20-GRM1008                | SG | 11778371 | 250H Service Grader 12H GRM1008          | Y18W26 |
| 40LH | 20/06/2018 | 7:30:00  | 2060-10-70-20-GRM1008-ENSY-FUSY      | MN | 21265619 | SOS ALERT - Check Fuel Dilution          |        |
| 40LH | 19/06/2018 | 7:30:00  | 2060-10-70-20-GRM1008-ENSY           | MI | 21264840 | repair engine fault                      |        |
| 40LH | 13/06/2018 | 7:30:00  | 2060-10-70-20-GRM1008-OPCB-ACSY      | MI | 21260740 | A/C blowing warm air                     |        |
| 40LH | 8/06/2018  | 7:30:00  | 2060-10-70-20-GRM1008-FSSY           | SG | 11717582 | 12M Fire Suppression Inspection          | Y18W23 |
| 40LH | 7/06/2018  | 19:30:00 | 2060-10-70-20-GRM1008                | SG | 11733724 | 500H Service Grader 12H GRM1008          | Y18W23 |
| 40LH | 6/06/2018  | 7:30:00  | 2060-10-70-20-GRM1008-HYSY           | MI | 21256478 | c/o blown tilt hose                      |        |
| 40LH | 28/05/2018 | 7:30:00  | 2060-10-70-20-GRM1008-HYSY           | MI | 21249650 | GRM1008- repair oils leaks under cab     |        |
| 40LH | 26/05/2018 | 7:30:00  | 2060-10-70-20-GRM1008-ENSY           | MI | 21248603 | C/O engine oil and take sample           |        |
| 40LH | 20/05/2018 | 7:30:00  | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 21245196 | I/R Reverse Light Fault                  |        |
| 40LH | 16/05/2018 | 7:30:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 21242435 | C/O Cutting Edges                        |        |
| 20EL | 15/05/2018 | 7:30:00  | 2060-10-70-20-GRM1008                | MI | 21241190 | repairs to radio                         |        |
| 40LH | 11/05/2018 | 7:30:00  | 2060-10-70-20-GRM1008-OPCB           | MN | 21229898 | GRM1008 - Repair rear cab lights         | Y18W19 |
| 40LH | 10/05/2018 | 19:30:00 | 2060-10-70-20-GRM1008                | SG | 11733518 | 250H Service Grader 12H GRM1008          | Y18W19 |
| 40LH | 10/05/2018 | 19:30:00 | 2060-10-70-20-GRM1008-FRBO-ECSY      | MN | 21221094 | GRM1008 - Install start isolator         | Y18W19 |
| 40LH | 10/05/2018 | 19:30:00 | 2060-10-70-20-GRM1008-OPCB           | MN | 21221088 | grm1008 replace trans shift control      | Y18W19 |
| 40LH | 8/05/2018  | 7:30:00  | 2060-10-70-20-GRM1008-DRTR-TRAN      | MI | 21236176 | i/r trans filter light coming on         |        |
| 40LH | 1/05/2018  | 7:30:00  | 2060-10-70-20-GRM1008-DRTR-TAN2-BRA2 | MI | 21231775 | C/O Pos 2 Tyre                           |        |
| 40LH | 21/04/2018 | 7:30:00  | 2060-10-70-20-GRM1008-FRBO           | MI | 21225043 | Repair Engine Bay Door Latch             |        |
| 40LH | 19/04/2018 | 7:10:01  | 2060-10-70-20-GRM1008-FRBO           | MI | 21223292 | c\o pos 6 flat tyre/                     |        |
| 40LH | 17/04/2018 | 7:30:00  | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 21221975 | Replace Centre Wear Strips               |        |
| 40LH | 17/04/2018 | 7:30:00  | 2060-10-70-20-GRM1008-OPCB           | MN | 21085408 | repair washers                           |        |
| 20EL | 13/04/2018 | 7:30:00  | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 21219497 | Prox and radio check GRM1008             |        |
| 40LH | 11/04/2018 | 7:30:00  | 2060-10-70-20-GRM1008                | MN | 21210293 | GRM1008 COMMISSION TO SITE APR 18        | Y18W15 |
| 40LH | 11/02/2018 | 7:30:00  | 2060-10-70-20-GRM1008-HYSY-HYCY      | MN | 21051486 | Replace P1 Lift Cylinder                 | Y18W06 |
| 40LH | 11/02/2018 | 7:30:00  | 2060-10-70-20-GRM1008-HYSY-HYCY      | MN | 21170881 | Adjust Mulboard wear strips/tie rods     | Y18W06 |
| 40LH | 11/02/2018 | 7:30:00  | 2060-10-70-20-GRM1008-OPCB           | MN | 21171452 | Repair door open catch                   | Y18W06 |
| 40LH | 11/02/2018 | 7:30:00  | 2060-10-70-20-GRM1008-OPCB-ACSY      | MN | 21170835 | I/R A/C not working correctly            | Y18W06 |
| 40LH | 7/02/2018  | 7:30:00  | 2060-10-70-20-GRM1008-DRTR-DIFF      | MI | 21173817 | Repair Park Brake Fault                  |        |
| 40LH | 1/02/2018  | 7:30:00  | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 21169331 | Repair / Replace work lights             |        |
| 40LH | 28/01/2018 | 7:30:00  | 2060-10-70-20-GRM1008-DRTR-TAN2-WHR2 | MI | 21166397 | C/O Pos 4 Flat Tyre                      |        |
| 40LH | 25/01/2018 | 6:30:00  | 2060-10-70-20-GRM1008-ENSY-EXSY      | MI | 21163578 | Repair Exhaust System                    |        |
| 40LH | 23/01/2018 | 7:30:00  | 2060-10-70-20-GRM1008-FSSY-HOSE      | MI | 21162756 | AFFF has Discharged                      |        |
| 40LH | 22/01/2018 | 7:30:00  | 2060-10-70-20-GRM1008-IMAT-CIRC      | MI | 21161468 | Circle drive not turning                 |        |
| 40LH | 20/01/2018 | 7:30:00  | 2060-10-70-20-GRM1008-OPCB           | MI | 21160547 | repair steer column tilt cylinder        |        |
| 40LH | 18/01/2018 | 7:30:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 21159385 | C/o worn cutting edges                   |        |
| 40LH | 17/01/2018 | 6:30:00  | 2060-10-70-20-GRM1008-FRBO-ARTC      | MI | 21082641 | C/Hitch movement                         |        |
| 40LH | 17/01/2018 | 17:22:16 | 2060-10-70-20-GRM1008                | SG | 11606226 | 250H Service Grader 12H GRM1008          | Y18W03 |
| 40LH | 17/01/2018 | 19:30:00 | 2060-10-70-20-GRM1008-OPCB           | MN | 20918707 | repair steer column tilt cylinder        |        |
| 40LH | 29/12/2017 | 7:30:00  | 2060-10-70-20-GRM1008-FRBO-AXAS      | MI | 21146274 | C/O Front Axle Assy/ Tri                 | Y18W03 |
| 40LH | 25/12/2017 | 7:30:00  | 2060-10-70-20-GRM1008                | SG | 11500250 | 250H Service Grader 12H GRM1008          | Y17W52 |
| 40LH | 19/12/2017 | 1:04:09  | 2060-10-70-20-GRM1008-IMAT-CIRC      | MI | 21046989 | Repair Circle Drive Brake Inop           | Y17W39 |
| 40LH | 3/12/2017  | 7:55:44  | 2060-10-70-20-GRM1008-FSSY           | SG | 11451290 | 6M Fire Suppression Inspection           | Y17W47 |
| 40LH | 23/11/2017 | 19:30:00 | 2060-10-70-20-GRM1008                | SG | 11554819 | 2000H Service Grader 12H GRM1008         | Y17W47 |
| 40LH | 12/11/2017 | 7:30:00  | 2060-10-70-20-GRM1008-DRTR           | MN | 20940662 | Replace Uni's as req                     |        |
| 40LH | 12/11/2017 | 7:30:00  | 2060-10-70-20-GRM1008-ENSY-ECSY      | MI | 21045337 | Fuel shut off light on dash              |        |
| 40LH | 25/09/2017 | 7:30:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MN | 21080873 | c/o blade slides                         |        |
| 40LH | 11/09/2017 | 7:30:00  | 2060-10-70-20-GRM1008-FRBO-AXAS      | MI | 21071216 | Replace Tie Rod P1                       |        |
| 40LH | 15/08/2017 | 7:30:00  | 2060-10-70-20-GRM1008                | MN | 21049422 | Scope Pre 3000H Tidy up as Backup Grader | Y17W33 |
| 40LH | 11/08/2017 | 7:30:00  | 2060-10-70-20-GRM1008-IMAT-CIRC      | MI | 21049269 | Circle Brake Not Holding                 |        |
| 40LH | 3/08/2017  | 0:00:00  | 2060-10-70-20-GRM1008-IMAT-CIRC      | MI | 21043943 | Insp/Rep Circle drive                    |        |
| 40LH | 3/08/2017  | 7:30:00  | 2060-10-70-20-GRM1008-ENSY           | MI | 21044127 | I/R engine oil leak                      |        |
| 40LH | 21/07/2017 | 19:30:00 | 2060-10-70-20-GRM1008                | SG | 11434567 | Service Grader 12H 500H GRM1008          | Y17W29 |
| 40LH | 9/07/2017  | 7:30:00  | 2060-10-70-20-GRM1008-DRTR-TAN1      | MI | 21027046 | C/O Pos 5 tyre                           |        |
| 40LH | 1/07/2017  | 7:30:00  | 2060-10-70-20-GRM1008-DRTR-TAN1-WHR3 | MN | 21012893 | c/o p3 tyre                              |        |
| 40LH | 20/06/2017 | 7:30:00  | 2060-10-70-20-GRM1008-DRTR-TAN1-WHR1 | MI | 21013825 | Retorque pos 1,2 & 3                     |        |
| 40LH | 9/06/2017  | 7:30:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 21007514 | C/O cutting edges                        |        |
| 40LH | 6/06/2017  | 7:30:00  | 2060-10-70-20-GRM1008                | SG | 11426267 | Service Grader 12H 250H GRM1008          | Y17W23 |
| 40LH | 6/06/2017  | 7:30:00  | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 21005107 | Repair reverse lights                    |        |
| 40LH | 6/06/2017  | 19:30:00 | 2060-10-70-20-GRM1008-ENSY           | MN | 20940666 | Replace belts and pulleys                | Y17W23 |
| 40LH | 26/05/2017 | 7:30:00  | 2060-10-70-20-GRM1008-FSSY           | SG | 11430793 | 12M Fire Suppression Inspection          | Y17W21 |
| 40LH | 28/04/2017 | 6:30:00  | 2060-10-70-20-GRM1008                | SG | 11361800 | Service Grader 12H 250Hr                 |        |
| 40LH | 28/04/2017 | 6:30:00  | 2060-10-70-20-GRM1008                | SG | 11375761 | Service Grader 12H 1000Hr                |        |
| 40LH | 10/04/2017 | 7:30:00  | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 20968494 | Repair Hydraulic Leak From Centre Lock   |        |
| 40LH | 10/04/2017 | 7:30:00  | 2060-10-70-20-GRM1008-OPCB-SEAT      | MI | 20968493 | Repair Air Leak From Seat                |        |
| 40LH | 5/04/2017  | 0:00:00  | 2060-10-70-20-GRM1008-DRTR-ECSY      | MN | 20965511 | REPAIR LIGHTS                            |        |
| 20EL | 1/04/2017  | 7:30:00  | 2060-10-70-20-GRM1008                | SG | 11375762 | 1000H Proximity System Inspection        | Y17W13 |

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| 40LH | 13/03/2017 | 0:00:00  | 2060-10-70-20-GRM1008-ENSY-ECSY      | MN | 20950309 | isolator u/s                             |          |
| 40LH | 13/03/2017 | 7:30:00  | 2060-10-70-20-GRM1008                | SG | 11295246 | Service Grader 12H 500Hr                 | Y17W11   |
| 40LH | 13/03/2017 | 7:30:00  | 2060-10-70-20-GRM1008-ALSY-HSVV      | MN | 20941585 | REPLACE BROKEN LOCKING PIN FITTING       | Y17W11   |
| 40LH | 13/03/2017 | 7:30:00  | 2060-10-70-20-GRM1008-IMAT-MOLD      | MN | 20946077 | inspect wearplates                       | Y17W11   |
| 40LH | 13/03/2017 | 19:30:00 | 2060-10-70-20-GRM1008-OPCB-ECSY      | MN | 20940679 | C/O Headlight switch                     | Y17W11   |
| 40LH | 4/03/2017  | 0:00:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20944816 | Replace bottom blade wear plate          |          |
| 40LH | 11/02/2017 | 7:00:00  | 2060-10-70-20-GRM1008                | SG | 11344367 | Service Grader 12H 1000Hr                |          |
| 20EL | 6/02/2017  | 7:30:00  | 2060-10-70-20-GRM1008                | SG | 11344368 | 1000H Proximity System Inspection        | Y17W06   |
| 40LH | 3/02/2017  | 7:30:00  | 2060-10-70-20-GRM1008-OPCB-ACSY      | MN | 20898147 | C/O Aircon Fan Motor                     | Y17W05   |
| 40LH | 3/02/2017  | 7:30:00  | 2060-10-70-20-GRM1008-OPCB-ACSY      | MN | 20914291 | REPAIR A/C FAULT                         | Y17W05   |
| 40LH | 2/02/2017  | 0:00:00  | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 20925929 | C/O CUTTING EDGES                        |          |
| 40LH | 2/02/2017  | 7:30:00  | 2060-10-70-20-GRM1008                | SG | 11319594 | Service Grader 12H 250Hr                 | Y17W05   |
| 40LH | 2/02/2017  | 19:30:00 | 2060-10-70-20-GRM1008-OPCB           | MN | 20827729 | Replace L/H/R, R/H/R 1/4 Windows         | Y17W05   |
| 40LH | 2/02/2017  | 19:30:00 | 2060-10-70-20-GRM1008-OPCB           | MN | 20901882 | Inspect/Repair windscreen wipers         | Y17W05   |
| 40LH | 2/02/2017  | 19:30:00 | 2060-10-70-20-GRM1008-OPCB-ECSY      | MN | 20856921 | C/O diff lock switch                     | Y17W05   |
| 40LH | 19/01/2017 | 0:00:00  | 2060-10-70-20-GRM1008-OPCB           | MI | 20916507 | Repair Steer column Fault                |          |
| 40LH | 2/01/2017  | 7:00:00  | 2060-10-70-20-GRM1008-DRTR-TAN1-FDS1 | MN | 20863522 | Rseal pos 1 Tandem Drive Axle            |          |
| 40LH | 30/12/2016 | 7:00:00  | 2060-10-70-20-GRM1008-ENSY-IKSY      | MN | 20904801 | Replace Turbocharger                     |          |
| 40LH | 25/12/2016 | 0:00:00  | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 20902125 | C/O BLOWN HOSE                           |          |
| 40LH | 24/12/2016 | 0:00:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20901853 | REFIT CENTRE LOCK FOR PIVOT ARM          |          |
| 40LH | 15/12/2016 | 7:00:00  | 2060-10-70-20-GRM1008-OPCB-ACSY      | MN | 20896919 | Repair Aircon                            |          |
| 40LH | 14/11/2016 | 7:30:00  | 2060-10-70-20-GRM1008-FSSY           | SG | 11288986 | 6M Fire Suppression Inspection           |          |
| 40LH | 19/10/2016 | 0:00:00  | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 20861137 | Hyd oil leak/Broken fitting for blade po |          |
| 40LH | 19/10/2016 | 7:00:00  | 2060-10-70-20-GRM1008-DRTR-TRAN      | MN | 20861414 | Repair Trans Fault                       |          |
| 40LH | 14/10/2016 | 7:00:00  | 2060-10-70-20-GRM1008-DRTR           | MI | 20858445 | Retorque pos 2 wheel                     |          |
| 40LH | 14/10/2016 | 7:30:00  | 2060-10-70-20-GRM1008                | SG | 11251230 | Service Grader 12H 250Hr                 | Y16W41   |
| 40LH | 14/10/2016 | 7:30:00  | 2060-10-70-20-GRM1008-HYSY-HYPU      | MN | 20839530 | C/O worn pump drive parts                | Y16W41   |
| 40LH | 12/10/2016 | 0:00:00  | 2060-10-70-20-GRM1008-DRTR           | MI | 20856796 | c/o pos 2 flat tyre                      |          |
| 40LH | 4/10/2016  | 7:00:00  | 2060-10-70-20-GRM1008-FRBO-ARTC      | MN | 20851318 | Repair Articulation Fault                |          |
| 40LH | 4/10/2016  | 7:00:00  | 2060-10-70-20-GRM1008-IMAT           | MI | 20850947 | C/O Cutting edges                        |          |
| 40LH | 2/10/2016  | 11:54:03 | 2060-10-70-20-GRM1008-DRTR-TAN1-WHR3 | MN | 20827731 | Replace Pos 5 Tyre mismatched            | Y16W37   |
| 40LH | 24/09/2016 | 7:00:00  | 2060-10-70-20-GRM1008                | SG | 11228383 | Service Grader 12H 250Hr                 |          |
| 40LH | 20/09/2016 | 0:00:00  | 2060-10-70-20-GRM1008-FRBO-ARTC      | MI | 20839148 | Inspect/repair articulation fault        |          |
| 40LH | 18/09/2016 | 0:00:00  | 2060-10-70-20-GRM1008-FRBO-ARTC      | MN | 20841750 | Inspect/repair articulation fault        |          |
| 20EL | 15/09/2016 | 7:00:00  | 2060-10-70-20-GRM1008                | SG | 11231125 | 1000H Proximity System Inspection        | Y16W37   |
| 40LH | 12/09/2016 | 7:00:00  | 2060-10-70-20-GRM1008-HYSY-STSY      | MI | 20837750 | Steering articulation fault              |          |
| 40LH | 12/09/2016 | 7:30:00  | 2060-10-70-20-GRM1008                | SG | 11231124 | Service Grader 12H 2000Hr                | Y16W37   |
| 40LH | 7/09/2016  | 7:00:00  | 2060-10-70-20-GRM1008                | MN | 20833884 | C/O POS#3/4/5/6 MISMATCHED               | Y16W37   |
| 40LH | 5/09/2016  | 7:00:00  | 2060-10-70-20-GRM1008-DRTR           | MI | 20834106 | Retorque all rear wheels                 |          |
| 40LH | 4/09/2016  | 0:00:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20833492 | WELD BLADE TILT CYL PIN                  |          |
| 40LH | 30/08/2016 | 7:00:00  | 2060-10-70-20-GRM1008-IMAT           | MI | 20830583 | Replace missing blade slide              |          |
| 40LH | 29/08/2016 | 7:00:00  | 2060-10-70-20-GRM1008                | SG | 11157723 | Service Grader 12H 500Hr                 |          |
| 40LH | 25/08/2016 | 0:00:00  | 2060-10-70-20-GRM1008-FSSY-TVRE      | MN | 20827512 | Replace AFFF Cylinder Mounts             |          |
| 40LH | 24/08/2016 | 7:00:00  | 2060-10-70-20-GRM1008                | SG | 11181524 | Service Grader 12H 250Hr                 |          |
| 40LH | 24/08/2016 | 7:00:00  | 2060-10-70-20-GRM1008                | SG | 11205146 | Service Grader 12H 2000Hr                |          |
| 20EL | 24/08/2016 | 7:30:00  | 2060-10-70-20-GRM1008                | SG | 11205147 | 1000H Proximity System Inspection        | Y16W34   |
| 40LH | 22/08/2016 | 0:00:00  | 2060-10-70-20-GRM1008-OPCB-ACSY      | MI | 20825621 | REPAIR A/C FAULT                         |          |
| 40LH | 22/08/2016 | 0:00:00  | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 20825094 | REPAIR ELECTRICAL FAULT                  |          |
| 40LH | 18/08/2016 | 0:00:00  | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20823174 | replace isolator                         |          |
| 40LH | 18/08/2016 | 0:00:00  | 2060-10-70-20-GRM1008-IMAT           | MI | 20823468 | REPAIR BLADE ASSY                        |          |
| 40LH | 16/08/2016 | 0:00:00  | 2060-10-70-20-GRM1008-IMAT-CIRC      | MI | 20821913 | REPAIR CIRCLE ROTATION                   |          |
| 40LH | 14/08/2016 | 7:00:00  | 2060-10-70-20-GRM1008-FRBO           | MN | 20820818 | C/O Centre Hitch Bolts                   |          |
| 40LH | 13/08/2016 | 7:00:00  | 2060-10-70-20-GRM1008-IMAT-SCAR      | MN | 20820585 | Fit Rippers                              |          |
| 40LH | 9/08/2016  | 14:17:00 | 2060-10-70-20-GRM1008-DRTR-TRAN      | MN | 20787158 | C/O Transmission & hoses to suit         | DBS S6   |
| 40LH | 6/08/2016  | 19:30:00 | 2060-10-70-20-GRM1008                | SG | 11113072 | Service Grader 12H 250Hr                 | Y16W31   |
| 40LH | 5/08/2016  | 7:00:00  | 2060-10-70-20-GRM1008-DRTR           | MI | 20816330 | C/O pos 3,4,5,and 6 tyres & make spares  |          |
| 40LH | 1/08/2016  | 6:00:00  | 2060-10-70-20-GRM1008                | SG | 11040158 | Service Grader 12H 500Hr                 |          |
| Z4RE | 22/07/2016 | 7:00:00  | 2060-10-70-20-GRM1008-OPCB-ACSY      | SG | 11184014 | Component Change Aircon Compressor       |          |
| 20EL | 7/06/2016  | 7:00:00  | 2060-10-70-20-GRM1008                | SG | 11089451 | 1000H Proximity System Inspection        |          |
| 40LH | 9/05/2016  | 0:00:00  | 2060-10-70-20-GRM1008-FSSY           | SG | 11098425 | 12M Fire Suppression Inspection          | DBSAFF16 |
| 40LH | 21/04/2016 | 7:00:00  | 2060-10-70-20-GRM1008                | SG | 11061361 | Service Grader 12H 250Hr                 |          |
| 40LH | 21/04/2016 | 7:00:00  | 2060-10-70-20-GRM1008                | SG | 11089450 | Service Grader 12H 1000Hr                |          |
| 40LH | 8/04/2016  | 7:00:00  | 2060-10-70-20-GRM1008-HYSY-HYCY      | MI | 20656118 | Replace leaking side shift cylinder      | DBS S6   |
| 40LH | 6/02/2016  | 7:00:00  | 2060-10-70-20-GRM1008-DRTR-ECSY      | MI | 20679777 | Repair jumps out of 4th gear             |          |
| 40LH | 5/02/2016  | 0:00:00  | 2060-10-70-20-GRM1008-OPCB           | MI | 20679266 | c/o seat                                 |          |
| 40LH | 5/02/2016  | 7:00:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20679004 | C/O Cutting edges                        |          |
| 40LH | 23/01/2016 | 7:00:00  | 2060-10-70-20-GRM1008-DRTR-TAN1      | MN | 20671418 | Refit pos 1 tandem to machine            | Y16W04   |
| 40LH | 22/01/2016 | 7:00:00  | 2060-10-70-20-GRM1008-ENSY           | MN | 20670944 | Inspect engine light coming on           |          |

|          |            |          |                                      |    |          |  |          |
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| 40LH     | 20/01/2016 | 7:30:00  | 2060-10-70-20-GRM1008-DRTR           | MI | 20660772 | C/O POS#1/2/3 TYRES FIT SPARE TO POS#2   | Y16W03   |
| 40LH     | 19/01/2016 | 19:30:00 | 2060-10-70-20-GRM1008                | SG | 11003651 | Service Grader 12H 250Hr                 | Y16W03   |
| 40LH     | 18/01/2016 | 6:00:00  | 2060-10-70-20-GRM1008-DRTR           | MI | 20668956 | C/O POS#5                                |          |
| 40LH     | 14/01/2016 | 7:00:00  | 2060-10-70-20-GRM1008-IMAT-DRBR      | MI | 20666189 | Replace missing ripper boot pin          |          |
| 40LH     | 10/01/2016 | 0:00:00  | 2060-10-70-20-GRM1008-DRTR-TAN1-WHR1 | MI | 20663750 | RETORQUE P1,P2&P3                        |          |
| 40LH     | 8/01/2016  | 7:00:00  | 2060-10-70-20-GRM1008-IMAT           | MN | 20662833 | C/O Cutting Edges                        |          |
| 40LH     | 7/01/2016  | 0:00:00  | 2060-10-70-20-GRM1008-DRTR-TAN2-TYR2 | MI | 20662300 | RETORQUE POS 2 WHEEL                     |          |
| 40LH     | 6/01/2016  | 7:00:00  | 2060-10-70-20-GRM1008                | MI | 20661161 | MANUFACTURE TOOLING FOR FLAT TYRES       |          |
| 40LH     | 5/01/2016  | 0:00:00  | 2060-10-70-20-GRM1008-DRTR           | MN | 20660922 | Order new rims for 12H Grader            | DBS S2   |
| 40LH     | 1/01/2016  | 7:30:00  | 2060-10-70-20-GRM1008-FRBO           | MN | 20618508 | Replace A-Frame ball housing - cracked   | Y15W53   |
| 40LH     | 24/12/2015 | 0:00:00  | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 20655622 | REPAIR WORK LIGHTS                       |          |
| 40LH     | 22/12/2015 | 7:00:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MN | 20653748 | C/O Wear Strips                          |          |
| 40LH     | 21/12/2015 | 7:00:00  | 2060-10-70-20-GRM1008                | SG | 10949710 | Service Grader 12H 2000Hr                | Y15W52   |
| 40LH     | 16/12/2015 | 0:00:00  | 2060-10-70-20-GRM1008-IMAT           | MI | 20651048 | REPLACE BROKEN PLOUGH BOLTS              |          |
| 40LH     | 11/12/2015 | 6:00:00  | 2060-10-70-20-GRM1008-DRTR           | MI | 20648571 | C/O Pos 4 tyre                           |          |
| 40LH-TAI | 3/12/2015  | 7:00:00  | 2060-10-70-20-GRM1008-OPCB           | MI | 20562495 | Replace cabin doors                      | DBS S5   |
| 40LH     | 30/11/2015 | 0:00:00  | 2060-10-70-20-GRM1008-FSSY           | SG | 10984635 | 6M Fire Suppression Inspection           | DBSAFF15 |
| 40LH     | 28/11/2015 | 0:00:00  | 2060-10-70-20-GRM1008-DRTR-TRAN      | MI | 20640781 | REPAIR GEAR SELECTOR FAULT               |          |
| 40LH     | 16/11/2015 | 0:00:00  | 2060-10-70-20-GRM1008-IMAT-DRBR      | MI | 20633874 | REPAIR BLADE SWING LOCK CYL              |          |
| 20EL     | 16/11/2015 | 6:00:00  | 2060-10-70-20-GRM1008                | MI | 20634565 | Proxy Tag Fault                          |          |
| 20EL     | 14/11/2015 | 6:00:00  | 2060-10-70-20-GRM1008                | MI | 20633378 | Proximity machine tag fault              |          |
| 40LH     | 13/11/2015 | 0:00:00  | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 20632952 | REPAIR POWER SUPPLY FAULT TO 2 WAY       |          |
| 40LH     | 11/11/2015 | 6:00:00  | 2060-10-70-20-GRM1008-DRTR-TAN2-WHR4 | MI | 20632099 | Retorque and check Pos 6 rim             |          |
| 40LH     | 5/11/2015  | 6:00:00  | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 20628069 | Hyd oil leak on goose neck/              |          |
| 40LH     | 4/11/2015  | 0:00:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20602317 | Trial Bar and pick type GETS             | Y15W47   |
| 40LH     | 3/11/2015  | 6:00:00  | 2060-10-70-20-GRM1008-DRTR-HSVV      | MN | 20627567 | HYD OIL LEAK, UNDER CAB                  | DBS S1   |
| 40LH     | 2/11/2015  | 0:00:00  | 2060-10-70-20-GRM1008-DRTR-TAN2-TYR2 | MI | 20626193 | RETORQUE POS 2 WHEEL                     |          |
| 40LH-TAI | 2/11/2015  | 6:00:00  | 2060-10-70-20-GRM1008-FRBO-AXAS-TYR2 | MI | 20626109 | C/O Pos 2 tyre                           |          |
| 40LH-TAI | 30/10/2015 | 7:00:00  | 2060-10-70-20-GRM1008-IMAT           | MI | 20577665 | Repair/Replace bent rippers              | DBS S5   |
| 40LH-TAI | 29/10/2015 | 6:00:00  | 2060-10-70-20-GRM1008-FRBO           | MI | 20624349 | Tighten / Replace center hitch bolts     |          |
| 40LH-TAI | 29/10/2015 | 7:00:00  | 2060-10-70-20-GRM1008-HYSY           | MI | 20624352 | Repair Engine Oil Leak                   | DBS S2   |
| 40LH     | 27/10/2015 | 6:00:00  | 2060-10-70-20-GRM1008                | SG | 10722494 | Service Grader 12H 250Hr                 | Y15W44   |
| 40LH     | 22/10/2015 | 6:00:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MN | 20621020 | C/O Cutting Edges                        |          |
| 20EL     | 18/10/2015 | 6:00:00  | 2060-10-70-20-GRM1008                | SG | 10949711 | 1000H Proximity System Inspection        |          |
| 40LH-TAI | 14/10/2015 | 6:00:00  | 2060-10-70-20-GRM1008-IMAT           | MI | 20616294 | Replace ripper tips                      |          |
| 40LH-TAM | 13/10/2015 | 6:00:00  | 2060-10-70-20-GRM1008-DRTR-TAN2-TYR4 | MI | 20615901 | C/O Pos 6 tyre                           |          |
| 40LH-TAM | 13/10/2015 | 6:00:00  | 2060-10-70-20-GRM1008-DRTR-TAN2-WHR4 | MI | 20615902 | Retorque pos 6 wheel                     |          |
| 40LH     | 25/09/2015 | 7:00:00  | 2060-10-70-20-GRM1008-OPCB-ACSY      | MI | 20597402 | A/C NOT COLD                             | Y15W49   |
| 40LH     | 25/09/2015 | 7:00:00  | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 20561821 | Repair wipers n/w                        | Y16W01   |
| 40LH     | 22/09/2015 | 0:00:00  | 2060-10-70-20-GRM1008-DRTR-TAN2-TYR2 | MI | 20604469 | REPAIR P4 TYRE                           |          |
| 40LH     | 9/09/2015  | 7:00:00  | 2060-10-70-20-GRM1008-DRTR-TAN1-TYR3 | MI | 20597310 | C/O POS 5 TYRE                           | DBS S5   |
| 40LH     | 7/09/2015  | 7:00:00  | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20578885 | UPGRADE GRADER LIGHTS MINING HAS REQUEST | DBS S5   |
| 40LH     | 5/09/2015  | 0:00:00  | 2060-10-70-20-GRM1008                | MI | 20595111 | RE SAMPLE HYD OIL                        |          |
| 40LH     | 5/09/2015  | 0:00:00  | 2060-10-70-20-GRM1008-FRBO-AXAS      | MI | 20595118 | TIGHTEN FRONT RETAINER PLATES            |          |
| 40LH     | 5/09/2015  | 0:00:00  | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 20595112 | REPAIR STARTER WIRING                    |          |
| 40LH     | 27/08/2015 | 6:00:00  | 2060-10-70-20-GRM1008                | SG | 10618805 | Service Grader 12H 500Hr                 | Y15W35   |
| 40LH     | 26/08/2015 | 0:00:00  | 2060-10-70-20-GRM1008-FRBO-AXAS-TYR2 | MI | 20589151 | C/O P2 TYRE                              |          |
| 40LH     | 19/08/2015 | 0:00:00  | 2060-10-70-20-GRM1008-FSSY           | MI | 20585459 | repair afff                              |          |
| 40LH     | 19/08/2015 | 6:00:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20585260 | Replace missing blade slides             |          |
| 40LH     | 15/08/2015 | 6:00:00  | 2060-10-70-20-GRM1008-FSSY           | MN | 20583097 | Repair AFFF                              |          |
| 40LH-TAI | 8/08/2015  | 6:00:00  | 2060-10-70-20-GRM1008-ENSY           | MI | 20579449 | Inspect/Repair fuel Pp mount seal        |          |
| 40LH     | 6/08/2015  | 6:00:00  | 2060-10-70-20-GRM1008-FRBO           | MI | 20577422 | c/o front axle assembly                  | DBS S1   |
| 40LH     | 3/08/2015  | 0:00:00  | 2060-10-70-20-GRM1008-FSSY           | SG | 10545599 | 12M Fire Suppression Inspection          | DBSAFF14 |
| 40LH     | 3/08/2015  | 0:00:00  | 2060-10-70-20-GRM1008-FSSY           | SG | 10562883 | 6M Fire Suppression Inspection           | DBSAFF14 |
| 40LH     | 3/08/2015  | 6:00:00  | 2060-10-70-20-GRM1008-OPCB           | MI | 20477590 | inspect/repair lower wipers              | DBS S1   |
| 40LH     | 2/08/2015  | 6:00:00  | 2060-10-70-20-GRM1008-OPCB           | MN | 20575937 | C/O Broken Windows                       |          |
| 40LH     | 1/08/2015  | 0:00:00  | 2060-10-70-20-GRM1008-FRBO           | MI | 20575272 | REPAIR REVERSE LIGHT BRACKET             | DBS S5   |
| 40LH     | 31/07/2015 | 6:00:00  | 2060-10-70-20-GRM1008-IMAT-SCAR      | MI | 20574931 | C/O RIPPER BOOTS                         | DBS S5   |
| 40LH     | 29/07/2015 | 6:00:00  | 2060-10-70-20-GRM1008-FSSY           | MN | 20573861 | Repair AFFF                              |          |
| 40LH     | 27/07/2015 | 0:00:00  | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 20572486 | C/O worn cutting edges                   |          |
| 40LH-TAI | 21/07/2015 | 6:00:00  | 2060-10-70-20-GRM1008-FRBO           | MI | 20569257 | Inspect/Repair bent steering drag link   | DBS S1   |
| 40LH     | 17/07/2015 | 6:00:00  | 2060-10-70-20-GRM1008-DRTR           | MI | 20499069 | C/O park brake pressure switch           | Y15W29   |
| 40LH     | 16/07/2015 | 0:00:00  | 2060-10-70-20-GRM1008-ENSY-ECSY      | MI | 20566895 | ENGINE FUEL RELAY FAULT                  |          |
| 40LH     | 15/07/2015 | 6:00:00  | 2060-10-70-20-GRM1008                | SG | 10602708 | Service Grader 12H 250Hr                 | Y15W29   |
| 40LH-TAD | 13/07/2015 | 6:00:00  | 2060-10-70-20-GRM1008-FRBO           | MI | 20562496 | Replace front and rear cab lights        | DBS S5   |
| 40LH     | 11/07/2015 | 6:00:00  | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 20563971 | INSTALL NEW WORKLIGHTS                   | DBS S5   |
| 40LH     | 10/07/2015 | 0:00:00  | 2060-10-70-20-GRM1008-DRTR-TAN1-TYR1 | MI | 20563577 | C/O POS 1 TYRE                           |          |
| 40LH     | 10/07/2015 | 0:00:00  | 2060-10-70-20-GRM1008-DRTR-TAN2-TYR2 | MI | 20563578 | C/O POS 2 TYRE                           |          |

|          |            |         |                                      |    |          |  |          |
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| 40LH-TAD | 7/07/2015  | 0:00:00 | 2060-10-70-20-GRM1008-OPCB-ACSY      | MI | 20561837 | Inspect/Repair aircon fault              | DBS S1   |
| 40LH     | 7/07/2015  | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-SEAT      | MI | 20561649 | Replace faulty seat                      |          |
| 40LH     | 4/07/2015  | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MN | 20560160 | C/O Wearstrip Retainers                  |          |
| 40LH     | 1/07/2015  | 0:00:00 | 2060-10-70-20-GRM1008-OPCB           | MI | 20558334 | inspect/repair gauges                    | DBS S1   |
| 40LH-TAI | 29/06/2015 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN1-TYR3 | MI | 20557150 | Repair pos 5 tyre                        |          |
| 40LH     | 1/06/2015  | 0:00:00 | 2060-10-70-20-GRM1008-FSSY           | SG | 10865523 | 12M Fire Suppression Inspection          | DBSAFF15 |
| 20EL     | 31/05/2015 | 6:00:00 | 2060-10-70-20-GRM1008                | MI | 20541660 | Replace Proximity screen                 |          |
| 40LH     | 29/05/2015 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-ECSY      | SG | 10342746 | Component Change Starter Motor           | 100824RB |
| 40LH     | 29/05/2015 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-FUSY      | MI | 20396153 | C/O FUEL GUAGE SENDER                    | DBS S2   |
| 40LH     | 29/05/2015 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20388557 | Replace lever for artic position sensor  | DBS S2   |
| 40LH     | 27/05/2015 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 20539614 | C/out blown hose                         |          |
| 40LH     | 18/05/2015 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN1-TYR1 | MI | 20534445 | C/O Pos 1 tyre                           |          |
| 40LH     | 6/05/2015  | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10586317 | Service Grader 12H 1000Hr                | Y15W19   |
| 40LH     | 4/05/2015  | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN1      | MI | 20527040 | Retorque pos 3 and pos 5 wheels          |          |
| 40LH     | 17/04/2015 | 7:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN1      | MI | 20512968 | Reseal P1 Tandem                         | Y15W17   |
| 40LH     | 9/04/2015  | 7:00:00 | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 20459258 | temperature gauge faulty                 | Y15W17   |
| 40LH     | 10/03/2015 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20499169 | c/o blade cushion solenoids              | DBS S3   |
| 40LH     | 24/02/2015 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 20491929 | Park brake very slow to release/         |          |
| 40LH     | 13/02/2015 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 20486455 | Parkbrake will not release/              |          |
| 40LH     | 12/02/2015 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY           | MN | 20486075 | C/O Hyd Hose                             |          |
| 40LH     | 9/02/2015  | 6:00:00 | 2060-10-70-20-GRM1008-DRTR           | MI | 20483253 | Repair parkbrake fault                   | Y15W07   |
| 40LH     | 2/02/2015  | 6:00:00 | 2060-10-70-20-GRM1008-ENSY           | MN | 20479883 | Repair Air Leak                          |          |
| 40LH     | 30/01/2015 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-ECSY      | MI | 20478546 | Park brake will not hold                 |          |
| 40LH     | 30/01/2015 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-ECSY      | MI | 20478456 | Brake alarm fault                        |          |
| 40LH     | 29/01/2015 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 20478365 | C/O worn cutting edges/                  |          |
| 40LH     | 1/01/2015  | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20463962 | C/O cutting edges                        |          |
| 40LH     | 26/12/2014 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10566852 | Service Grader 12H 250Hr                 | Y14W52   |
| 40LH     | 16/12/2014 | 0:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN2-TYR4 | MI | 20456996 | C/O POS 3456 TYRES                       | DBS S1   |
| 40LH     | 1/12/2014  | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN1-BRA1 | MN | 20425446 | REPAIR PARKBRAKE                         | Y14W49   |
| 40LH     | 24/10/2014 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ACSY      | MN | 20431170 | REPAIR A/C                               |          |
| 40LH     | 5/10/2014  | 0:00:00 | 2060-10-70-20-GRM1008-OPCB           | MI | 20421775 | Inspect/Repair rear wipers not working   | DBS S1   |
| 40LH     | 5/10/2014  | 0:00:00 | 2060-10-70-20-GRM1008-OPCB           | MI | 20421776 | Inspect/Repair cracked windscreen        | DBS S1   |
| 40LH     | 1/10/2014  | 0:00:00 | 2060-10-70-20-GRM1008-IMAT-CIRC      | MN | 20330534 | Refurbish Drawbar & Circle Assembly      |          |
| 40LH     | 1/10/2014  | 7:00:00 | 2060-10-70-20-GRM1008-DRTR-TRAN      | MI | 20420516 | repair trans light fault                 | Y15W15   |
| 40LH     | 12/08/2014 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 20395134 | Repair front & rear lights not working   |          |
| 20EL     | 31/07/2014 | 0:00:00 | 2060-10-70-20-GRM1008                | MI | 20389139 | Repair radio & prox fault                |          |
| 20EL     | 7/07/2014  | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10586318 | 1000H Proximity System Inspection        |          |
| 40LH     | 24/06/2014 | 0:00:00 | 2060-10-70-20-GRM1008-IMAT-SCAR      | MI | 20370885 | remove siezed ripper pins                | DBS S3   |
| 40LH     | 31/05/2014 | 0:00:00 | 2060-10-70-20-GRM1008-FSSY           | SG | 10513143 | 6M Fire Suppression Inspection           | Y14W20   |
| 40LH     | 31/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MN | 20359310 | c/o cutting edges                        |          |
| 10ME     | 22/05/2014 | 7:00:00 | 2060-10-70-20-GRM1008                | MN | 20354614 | Fabricate A-frame to support grader      |          |
| 40LH     | 21/05/2014 | 0:00:00 | 2060-10-70-20-GRM1008                | SG | 10342782 | Component Change Brake Treadle Valve     | 100824RB |
| 40LH     | 21/05/2014 | 0:00:00 | 2060-10-70-20-GRM1008                | MN | 20277154 | 24000H PCR CAT12H                        | 100824RB |
| 40LH     | 21/05/2014 | 0:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN2      | MN | 20277408 | Repair P2 tandem pivot oil leak          | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10230821 | Component Change Wheel Brake Assy P1     | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10230826 | Component Change Wheel Brake Assy P2     | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10230837 | Component Change Wheel Brake Assy P3     | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10230906 | Component Change Wheel Brake Assy P4     | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10418274 | Service Grader 12H 2000Hr                | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR           | SG | 10246332 | Component Change Uni Joint - Drive Shaft | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR           | MN | 20277233 | Test Brake System 12H                    | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR           | MN | 20277234 | Measure Brake Wear 12H                   | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR           | MN | 20277235 | Service Brake/Ride Accum Checks 1000Hr   | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR           | MN | 20277402 | C/O Tandem Seals                         | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR           | MN | 20277404 | Inspect front axle pins & bushes wear    | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-COSY      | SG | 10177537 | Component Change Engine Thermostat       | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-ECSY      | SG | 10342759 | Component Change Alternator              | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO           | MN | 20277156 | Linebore Centre Hitch                    | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO           | MN | 20277406 | Articulation gauge U/S                   | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY           | SG | 10342788 | Reseal Articulation Cyl Pos 2            | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY           | SG | 10342795 | Reseal Articulation Cyl Pos 1            | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-HYPU      | MN | 20277405 | Inspect oil leak from implement pump     | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-STSY      | MN | 20277155 | C/O Steering Lines Front Axle            | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT           | MI | 20249385 | C/O A Frame                              | 100824RB |
| 40LH     | 21/05/2014 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-SCAR      | MI | 20155314 | C/O Ripper Cylinder & Frame              | 100824RB |
| 40LH     | 20/05/2014 | 0:00:00 | 2060-10-70-20-GRM1008-DRTR           | MI | 20353189 | Re-torque pos 5 wheel/                   |          |
| 40LH     | 19/05/2014 | 0:00:00 | 2060-10-70-20-GRM1008-DRTR           | MI | 20352627 | Check brake wear/                        |          |
| 40LH     | 17/05/2014 | 0:00:00 | 2060-10-70-20-GRM1008-IMAT-CIRC      | MI | 20352131 | Grader blade drive box leaking oil       |          |

|      |            |         |                                      |    |          |  |          |
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| 40LH | 11/05/2014 | 0:00:00 | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 20348771 | REPLACE BLADE WEAR PIECE                 |          |
| 40LH | 10/05/2014 | 0:00:00 | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20348489 | REPAIR BRAKE LIGHTS                      |          |
| 40LH | 6/05/2014  | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10514849 | Service Grader 12H 500Hr                 | Y14W19   |
| 20EL | 4/05/2014  | 6:00:00 | 2060-10-70-20-GRM1008                | MN | 20310572 | UHF radio required in grader             | Y14W18   |
| 40LH | 29/04/2014 | 0:00:00 | 2060-10-70-20-GRM1008-OPCB           | MI | 20342771 | Repair loose steering column             |          |
| 40LH | 28/04/2014 | 0:00:00 | 2060-10-70-20-GRM1008-OPCB           | MI | 20341866 | No adjustment in steering column         | DBS S2   |
| 40LH | 27/04/2014 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10061640 | C/O Fan Drive Assy Cat12H                |          |
| 40LH | 24/04/2014 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY           | MI | 20340574 | INVESTIGATE LOW POWER ISSUE              |          |
| 40LH | 16/04/2014 | 0:00:00 | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 20321078 | C/O CUTTING EDGES                        |          |
| 40LH | 9/04/2014  | 0:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN2-BRA4 | MI | 20333722 | BRAKE PIPE CRACKED                       |          |
| 40LH | 8/04/2014  | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ACSY      | MI | 20332886 | Repair A/c fault                         |          |
| 40LH | 4/04/2014  | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TRAN      | MI | 20331148 | Not selecting gears                      |          |
| 40LH | 28/03/2014 | 0:00:00 | 2060-10-70-20-GRM1008-OPCB           | MI | 20327626 | inspect/repair bottom wipers             | DBS S1   |
| 40LH | 24/03/2014 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10412920 | Service Grader 12H 250Hr                 | Y14W13   |
| 40LH | 23/03/2014 | 0:00:00 | 2060-10-70-20-GRM1008                | SG | 10475119 | Service Fire Suppression System 12M      | NOT REQ  |
| 40LH | 17/03/2014 | 0:00:00 | 2060-10-70-20-GRM1008-IMAT           | MI | 20321600 | refurbish circle/balde assembly          |          |
| 40LH | 14/03/2014 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ECSY      | MN | 20320097 | REPAIR REVERSE LIGHTS                    |          |
| 40LH | 12/03/2014 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ECSY      | MN | 20318938 | REPAIR REVERSE LIGHTS                    |          |
| 40LH | 14/02/2014 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MN | 20306863 | C/O CUTTING EDGES                        |          |
| Z4RE | 1/02/2014  | 0:00:00 | 2060-10-70-20-GRM1008-HYSY           | MN | 20277403 | Inspect movement in cylinder ball joints | 100824RB |
| 40LH | 30/01/2014 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-IKSY      | MI | 20299168 | inspect/repair air cleaner brackets      | DBS S1   |
| 40LH | 30/01/2014 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB           | MI | 20299169 | inspect/repair cracked window            | DBS S1   |
| 40LH | 30/01/2014 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-VIMS      | MI | 20299170 | inspect/repair fuel guage                | DBS S1   |
| 40LH | 30/01/2014 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-VIMS      | MI | 20299171 | inspect/repair aticulation guage         | DBS S1   |
| 40LH | 22/01/2014 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-FUSY      | MI | 20294909 | Replace missing fuel cap                 |          |
| 40LH | 20/01/2014 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-FUSY-TVRE | MI | 20293845 | Machine run out of fuel/                 |          |
| 40LH | 20/01/2014 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20293663 | REPAIR REAR WORK LIGHTS                  |          |
| Z4RE | 12/01/2014 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ACSY      | SG | 10441219 | Component Change Aircon Compressor       |          |
| 40LH | 6/01/2014  | 6:00:00 | 2060-10-70-20-GRM1008                | MN | 20286673 | Inspect/Repair Alternator light flashing | DBS S1   |
| 40LH | 29/12/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-ECSY      | MI | 20283543 | Repair alt charge rate fault             |          |
| Z4RE | 19/12/2013 | 0:00:00 | 2060-10-70-20-GRM1008                | MN | 20275968 | Pre-PM Inspection                        |          |
| 20EL | 14/12/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10418275 | 1000H Proximity System Inspection        |          |
| 40LH | 9/12/2013  | 0:00:00 | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 20274507 | C/O CUTTING EDGES                        |          |
| 40LH | 4/12/2013  | 0:00:00 | 2060-10-70-20-GRM1008                | MN | 20270187 | Pre PM Inspection                        | Y13W49   |
| 20EL | 1/12/2013  | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10376870 | 1000H Proximity System Inspection        | Y13W48   |
| 40LH | 1/12/2013  | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20270424 | Prepare Blade assembly for overhaul      |          |
| 40LH | 30/11/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10376868 | Service Grader 12H 2000Hr                | Y13W48   |
| 40LH | 26/11/2013 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-ARTC      | MI | 20268256 | Repair No articulation                   |          |
| 40LH | 25/11/2013 | 0:00:00 | 2060-10-70-20-GRM1008                | SG | 10327126 | Inspection Fire Suppression System 6M    | Y13W41   |
| 40LH | 25/11/2013 | 0:00:00 | 2060-10-70-20-GRM1008-FSSY           | SG | 10337582 | 6M Fire Suppression Inspection Mobile    |          |
| 40LH | 25/11/2013 | 0:00:00 | 2060-10-70-20-GRM1008-FSSY           | SG | 10337620 | 6M Fire Suppression Inspection           |          |
| 40LH | 11/11/2013 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 20258582 | Compressor air dryer leaking badly       | DBS S2   |
| 40LH | 3/11/2013  | 7:00:00 | 2060-10-70-20-GRM1008-OPCB-ROFO      | MN | 20138827 | Repair rusted LHS door                   | DBS S5   |
| 40LH | 1/11/2013  | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-HSVV      | MI | 20256689 | C/O Cracked trans charge hose            |          |
| Z4RE | 31/10/2013 | 0:00:00 | 2060-10-70-20-GRM1008-HYSY           | SG | 10342789 | Component Change Accumulator (Steering)  | NOT REQ  |
| Z4RE | 31/10/2013 | 0:00:00 | 2060-10-70-20-GRM1008-HYSY           | SG | 10342796 | Reseal Accumulators Blade Cushion        | NOT REQ  |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10342740 | Component Change Air Compressor Governor | NOT REQ  |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10342743 | Component Change Blade Lift Arm Yoke Brg | NOT REQ  |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10342747 | Component Change Park Brake Control Valv | NOT REQ  |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10342750 | Reseal Blade Lift Cylinder Pos 1         | NOT REQ  |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10342755 | Component Change Lift Cyl Pivot Brg Pos  | NOT REQ  |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10342780 | Component Change Tandem Oscillbrgs Pos 2 | NOT REQ  |
| 40LH | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10342781 | Component Change Front Spindle Bearings  |          |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10342785 | Component Change Tandem Oscill Brgs Pos  | NOT REQ  |
| 40LH | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10342786 | Component Change Front Spindle Bearings  |          |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10342790 | Component Change Lift Cyl Pivot Brg Pos  | NOT REQ  |
| 40LH | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10342791 | Component Change Air Compressor          |          |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10342797 | Component Change Blade Lift Arm Yoke Brg | NOT REQ  |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10342798 | Reseal Blade Sideshift Cylinder          | NOT REQ  |
| 20EL | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | MI | 20256139 | Repair proximity fault                   |          |
| 40LH | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-COSY      | SG | 10342758 | Component Change Water Pump              |          |
| 40LH | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-ETBE      | SG | 10342783 | Component Change Engine Mounts           |          |
| 40LH | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-FUSY      | SG | 10342519 | Component Change Fuel Injector           |          |
| 40LH | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-FUSY      | SG | 10342745 | Component Change Fuel Injector           |          |
| 40LH | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-FUSY      | SG | 10342756 | Component Change Fuel Injector           |          |
| 40LH | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-FUSY      | SG | 10342757 | Component Change Fuel Injector           |          |
| 40LH | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-FUSY      | SG | 10342784 | Component Change Fuel Injector           |          |
| 40LH | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-FUSY      | SG | 10342793 | Component Change Fuel Injector           |          |

|      |            |         |                                      |    |          |  |         |
|------|------------|---------|--------------------------------------|----|----------|--|---------|
| 40LH | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-IKSY      | SG | 10342792 | Component Change Turbo                 |         |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY           | SG | 10342742 | Reseal Wheel Lean Cylinder             | NOT REQ |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY           | SG | 10342748 | Reseal Blade Lift Cylinder Pos 2       | NOT REQ |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY           | SG | 10342749 | Reseal Ripper Cylinder                 | NOT REQ |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY           | SG | 10342752 | Reseal Blade Centreshift Cylinder      | NOT REQ |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY           | SG | 10342753 | Reseal Steer Cylinder Pos 2            | NOT REQ |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY           | SG | 10342754 | Reseal Blade Centreshift Lock Cyl      | NOT REQ |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY           | SG | 10342787 | Reseal Steer Cylinder Pos 1            | NOT REQ |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY           | SG | 10342794 | Reseal Blade Tip Cylinder              | NOT REQ |
| 40LH | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-STSY      | SG | 10342741 | Component Change Tie Rod Ends          |         |
| Z4RE | 31/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ACSY      | SG | 10342744 | Component Change Aircon Components     | NOT REQ |
| 40LH | 29/10/2013 | 0:00:00 | 2060-10-70-20-GRM1008-ENSY           | MI | 20255004 | C/O STARTER                            |         |
| 40LH | 29/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-ECSY      | MI | 20254755 | C/O faulty batteries                   |         |
| 40LH | 28/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB           | MI | 20252490 | C/O AIR COMPRESSOR                     | DBS S5  |
| 40LH | 23/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10230822 | Component Change Rear Spindle Bearings |         |
| 40LH | 23/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10230827 | Component Change Final Drive Assy      |         |
| 40LH | 23/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10230828 | Component Change Rear Spindle Bearings |         |
| 40LH | 23/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10230832 | Component Change Transmission Pump     |         |
| 40LH | 23/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10230833 | Component Change Final Drive Assy      |         |
| 40LH | 23/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10230838 | Component Change Rear Spindle Bearings |         |
| 40LH | 23/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10230907 | Component Change Rear Spindle Bearings |         |
| 40LH | 23/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-DIFF      | SG | 10230905 | Component Change Diff                  |         |
| 40LH | 23/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TRAN      | SG | 10230825 | Component Change Transmission          |         |
| 40LH | 23/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY           | SG | 10230798 | Component Change Engine                |         |
| 40LH | 23/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-COSY-RADI | SG | 10230799 | Component Change Radiator              |         |
| 40LH | 23/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-HYPU      | SG | 10230831 | Component Change Main Implement Pump   |         |
| 40LH | 23/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-STSY      | SG | 10230908 | Component Change Steering Hmu          |         |
| 40LH | 23/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-CIRC      | SG | 10230823 | Component Change Circle Drive Gear Box |         |
| 40LH | 23/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-CIRC      | SG | 10230829 | Component Change Circle Drive Motor    |         |
| 40LH | 22/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-AXAS-TYR1 | MI | 20251205 | C/O pos 2 tyre                         |         |
| 40LH | 19/10/2013 | 0:00:00 | 2060-10-70-20-GRM1008-DRTR           | MN | 20177902 | Inspect/repair 5th gear operation      | Y13W42  |
| 40LH | 19/10/2013 | 0:00:00 | 2060-10-70-20-GRM1008-HYSY-STSY      | MN | 20148612 | Inspect/repair movement in king pins   | Y13W42  |
| 40LH | 19/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10353570 | Service Grader 12H 250Hr               | Y13W42  |
| 40LH | 19/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 20196676 | Inspect/Repair oil leak at artic area  | Y13W42  |
| 40LH | 19/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-STSY      | MN | 20146787 | Inspect/repair tie rod end boots split | Y13W42  |
| 40LH | 18/10/2013 | 0:00:00 | 2060-10-70-20-GRM1008                | MI | 20249195 | Change out pos 3,4,5,6, TYRES          |         |
| 40LH | 14/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 20246602 | C/O blown hyd hose                     |         |
| 40LH | 12/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-SEAT      | MI | 20246064 | C/O operator seat - no squab padding   |         |
| 40LH | 10/10/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MN | 20245047 | C/O Cutting Edges                      |         |
| 40LH | 6/10/2013  | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN2      | MI | 20243210 | C/out P6 tyre                          |         |
| 40LH | 5/10/2013  | 0:00:00 | 2060-10-70-20-GRM1008-OPCB-ACSY      | MN | 20242846 | Insect/repair A/C Operation            | DBS S1  |
| 40LH | 1/10/2013  | 0:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN2-TYR4 | MI | 20240335 | Rotorque Pos 6 wheel                   | DBS S1  |
| 40LH | 30/09/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN2-WHR4 | MI | 20240020 | C/O pos 6 tyre                         |         |
| 40LH | 27/09/2013 | 0:00:00 | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 20238557 | C/O Blown Hydraulic hose               |         |
| 40LH | 24/09/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10334523 | Service Grader 12H 500Hr               | Y13W39  |
| 40LH | 23/09/2013 | 0:00:00 | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 20236370 | replace wear piece blade slide         |         |
| Z4BM | 23/09/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-CIRC      | MN | 20129608 | repair cracks in circle & reshim       | DBS S1  |
| 40LH | 19/09/2013 | 0:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN2-WHR4 | MI | 20234801 | c/o pos 6 tyre                         |         |
| 40LH | 18/09/2013 | 0:00:00 | 2060-10-70-20-GRM1008-ENSY           | MI | 20234112 | replace engine belt                    | DBS S3  |
| 40LH | 13/09/2013 | 0:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20231938 | replace blade slide wear pieces        |         |
| 40LH | 12/09/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20231395 | C/OUT CUTTING EDGES                    |         |
| 40LH | 8/09/2013  | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-HYCY      | MI | 20229327 | C/out blown artic cylinder hose        |         |
| 40LH | 7/09/2013  | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 20229202 | Adjust excessive play in mold board    |         |
| 40LH | 1/09/2013  | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20226181 | Reweld cracked diagonal brace on blade |         |
| 40LH | 28/08/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10318930 | Service Grader 12H 250Hr               | Y13W35  |
| 40LH | 23/08/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN1-TYR3 | MN | 20221803 | C/O POS 3 TYRE                         |         |
| 40LH | 18/08/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY           | MI | 20219325 | REPAIR COMPRESSOR ENGINE OIL LEAK      |         |
| 20EL | 13/08/2013 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ECSY      | MN | 20216663 | Check Emergency Switch on UG1008       |         |
| 40LH | 12/08/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-ECSY      | MI | 20194177 | trans warning light on intermittantly  |         |
| 40LH | 11/08/2013 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ACSY      | MN | 20215663 | Repair Hot Air Con                     |         |
| 40LH | 11/08/2013 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 20215823 | ALARM MALFUNCTION                      | DBS S1  |
| 40LH | 10/08/2013 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-AXAS      | MI | 20215219 | C/O pos 2 steering cylinder ball joint | DBS S3  |
| 20EL | 9/08/2013  | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10306948 | 1000H Proximity System Inspection      | Y13W32  |
| 40LH | 9/08/2013  | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20214884 | C/O cutting edges                      |         |
| 40LH | 9/08/2013  | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 20215194 | MULBOARD SPREADER BAR                  | DBS S1  |
| 40LH | 8/08/2013  | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10306947 | Service Grader 12H 1000Hr              | Y13W32  |
| 40LH | 5/08/2013  | 6:00:00 | 2060-10-70-20-GRM1008-DRTR           | MI | 20212702 | C/OUT POS 1 WHEEL                      |         |
| 40LH | 3/08/2013  | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-ECSY      | MN | 20212247 | Repair Lights Not working              |         |

|          |            |         |                                      |    |          |   |         |
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| 40LH     | 3/08/2013  | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 20212182 | C/out blown hose                          |         |
| 40LH     | 1/08/2013  | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-HSVV      | MN | 20211278 | Replace blown Hose P2 Control Valve       |         |
| 40LH     | 30/07/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-LUSY      | MI | 20209899 | Hyd oil leak                              |         |
| Z4RE     | 27/07/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10230820 | Component Change Horn Solenoid            | NOT REQ |
| Z4RE     | 27/07/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10230900 | Component Change Fan Drive Solenoid Valv  | NOT REQ |
| 40LH     | 27/07/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-COSY      | SG | 10230835 | Component Change Fan Drive Assy           | DBS S2  |
| Z4RE     | 27/07/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-FUSY      | SG | 10230824 | Component Change Unit Injector Hyd Pump   | NOT REQ |
| Z4RE     | 27/07/2013 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-AXAS      | SG | 10230836 | Component Change Wheel Lean Arm/Axle Brg  | NOT REQ |
| Z4RE     | 27/07/2013 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-AXAS      | SG | 10230901 | Component Change Wheel Lean Arm/Axle Brg  | NOT REQ |
| Z4RE     | 27/07/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY           | SG | 10230839 | Component Change Fan Drive Piston Pump    | NOT REQ |
| 40LH     | 25/07/2013 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ACSY      | MI | 20140189 | replace damaged vent                      | DBS S5  |
| 40LH     | 20/07/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-COSY      | MI | 20205252 | Investigate coolant leak                  |         |
| 40LH     | 20/07/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-EXSY      | MI | 20205256 | Check for possible exhaust leak           |         |
| 40LH     | 20/07/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20205248 | C/O cutting edges                         |         |
| 40LH     | 18/07/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10260100 | Service Grader 12H 250Hr                  | Y13W29  |
| 40LH     | 18/07/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-HSVV      | MN | 20100893 | REPAIR AIR LEAK UNDER CAB                 | DBS S2  |
| 40LH     | 11/07/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20200722 | Repair blade movement                     |         |
| 40LH     | 8/07/2013  | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-CIRC      | MI | 20198657 | repair cracked circle drive arm           |         |
| 40LH     | 4/07/2013  | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20197068 | h/lights not working                      |         |
| 40LH     | 4/07/2013  | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20197071 | reverse lights not working                |         |
| 40LH     | 1/07/2013  | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20195096 | C/O CUTTING EDGES                         |         |
| 40LH     | 30/06/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-HYPU      | MI | 20195051 | hyd oil leak at pump compensator          | DBS S2  |
| 40LH     | 29/06/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-EXSY      | MI | 20194765 | repair exhaust leak at turbo              |         |
| 40LH     | 29/06/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 20194766 | repair oil leak at LH valve bank          |         |
| 40LH     | 27/06/2013 | 0:00:00 | 2060-10-70-20-GRM1008-OPCB           | MI | 20193604 | insp/repair bolts missing gear console    | DBS S1  |
| 40LH     | 27/06/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN1-WHR3 | MI | 20193388 | retorque p5 wheel nuts                    | DBS S1  |
| 40LH     | 11/06/2013 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 20185434 | Repair strobe light not working           |         |
| 40LH     | 8/06/2013  | 0:00:00 | 2060-10-70-20-GRM1008-ENSY-FUSY      | MN | 20180810 | Fit Fuel Metering System                  | Y13W23  |
| 40LH-TAI | 8/06/2013  | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-SCAR      | MN | 20147051 | C/O RIPPER LINK LOWER                     | DBS S2  |
| 40LH     | 7/06/2013  | 0:00:00 | 2060-10-70-20-GRM1008-FRBO           | MI | 20183735 | welding repairs                           |         |
| 40LH     | 7/06/2013  | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10245813 | Service Grader 12H 500Hr                  | Y13W23  |
| 40LH     | 1/06/2013  | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 20180861 | fan motor u/s                             |         |
| 40LH     | 29/05/2013 | 0:00:00 | 2060-10-70-20-GRM1008-DRTR-TRAN      | MI | 20178945 | no gears                                  |         |
| 40LH     | 29/05/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20178720 | c/o blade slides                          |         |
| 40LH     | 28/05/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN1      | MI | 20178638 | repair l/h tandem oil leak                |         |
| 40LH     | 28/05/2013 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20178289 | Reverse lights staying on                 |         |
| 40LH     | 27/05/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-FUSY-TVRE | MI | 20178178 | broken fuel cap                           |         |
| 40LH     | 24/05/2013 | 0:00:00 | 2060-10-70-20-GRM1008-FRBO-AESY      | MN | 20176816 | Inspect/repair isolator door hard to open | DBS S1  |
| 40LH     | 20/05/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10061642 | C/O Radiator Cat12H                       | Y13W21  |
| 40LH     | 19/05/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN1-BRA1 | MI | 20140186 | Repair/Replace brake pipe                 | DBS S2  |
| 40LH     | 5/05/2013  | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20166782 | C/O blade slides                          |         |
| 40LH     | 4/05/2013  | 6:00:00 | 2060-10-70-20-GRM1008                | MI | 20163574 | C/O POS 6 FLAT TYRE                       |         |
| 40LH     | 3/05/2013  | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 20105336 | c/o LH hyd control valve                  | DBS S5  |
| 40LH     | 2/05/2013  | 0:00:00 | 2060-10-70-20-GRM1008                | SG | 10169777 | Service Fire Supression System 12M        | Y13W18  |
| 40LH     | 2/05/2013  | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10216277 | Service Grader 12H 250Hr                  | Y13W18  |
| 40LH     | 29/04/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN2-TYR4 | MI | 20163577 | retorque pos 6 wheel nuts                 | DBS S1  |
| 40LH     | 29/04/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN2-WHR4 | MI | 20163576 | C/O POS 6 RIM                             |         |
| 40LH     | 28/04/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 20163273 | c/o cutting edges                         |         |
| 40LH     | 28/04/2013 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ACSY      | MI | 20163109 | a/c not working                           |         |
| 40LH     | 27/04/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-LUSY      | MI | 20163009 | oil leak from engine test nipple          |         |
| 40LH     | 26/04/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 20162308 | replace broken brake fitting              |         |
| 40LH     | 25/04/2013 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20161853 | repair lights                             |         |
| 40LH     | 25/04/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-DRBR      | MI | 20161954 | replace ripper frame                      | DBS S3  |
| 40LH     | 24/04/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 20161256 | repair crack in mulboard pivot            |         |
| 40LH     | 16/04/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-SCAR      | MI | 20156740 | replace ripper boot                       | NOT REQ |
| 40LH     | 11/04/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-DIFF      | MI | 20154117 | oil leak from diff cover o-ring           |         |
| 40LH     | 8/04/2013  | 0:00:00 | 2060-10-70-20-GRM1008-DRTR           | MN | 20152006 | investigate "no brake" fault              | DBS S5  |
| 40LH     | 7/04/2013  | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-ARTC      | MI | 20151744 | replace broken center hitch bolts         |         |
| 40LH     | 7/04/2013  | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-HYPU      | MI | 20151765 | C/O HYD PUMP SHAFT UNI'S                  | DBS S2  |
| 40LH     | 6/04/2013  | 0:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN1-BRA1 | MN | 20136216 | REPLACE BRAKE PIPE POS 1 TANDEM           | DBS S3  |
| 40LH     | 6/04/2013  | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10195176 | Service Grader 12H 2000Hr                 | Y13W14  |
| 40LH     | 5/04/2013  | 0:00:00 | 2060-10-70-20-GRM1008-OPCB-ACSY      | MI | 20150882 | repair a/c not working                    |         |
| 40LH     | 2/04/2013  | 6:00:00 | 2060-10-70-20-GRM1008                | MI | 20148079 | C/O Pos 2 tyre                            |         |
| 40LH     | 31/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-AXAS-WHR2 | MI | 20148200 | C/O Pos 2 rim                             |         |
| 40LH     | 31/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-AXAS-WHR2 | MI | 20148202 | Retorque Pos 2 rim                        | DBS S1  |
| 40LH     | 30/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20147814 | C/O blade slides                          |         |
| 40LH     | 29/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | MI | 20140517 | C/O TANDEM 2 P2 TYRE                      |         |
| 40LH     | 28/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-ARTC      | MN | 20146786 | Inspect/repair movement at centre hitch   | DBS S1  |

|      |            |         |                                      |    |          |  |          |
|------|------------|---------|--------------------------------------|----|----------|--|----------|
| 40LH | 28/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-MOLD      | MN | 20146403 | Insp/Rep worn cutting edges              |          |
| 40LH | 28/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB           | MN | 20147049 | Insp/repair cracked front windscreen     | DBS S1   |
| 40LH | 27/03/2013 | 0:00:00 | 2060-10-70-20-GRM1008-HYSY-HSVV      | MN | 20146160 | repair oil leak at centre hitch          |          |
| 40LH | 27/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-MTHY      | MI | 20129250 | Re-seal circle drive                     | DBS S5   |
| Z4BM | 25/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-CIRC      | MI | 20144674 | repair cracked gusset plates in circle   |          |
| 40LH | 20/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-AESY      | MI | 20142343 | Repair P1 access step                    |          |
| 40LH | 20/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20142342 | Repair broken emergency stop             |          |
| 40LH | 20/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ACSY      | MN | 20093199 | Repair A/C Filter Cover Missing          | DBS S5   |
| 40LH | 18/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | MI | 20140515 | C/O TANDEM 2 P1 TYRE                     |          |
| 40LH | 18/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN1-TYR3 | MI | 20140513 | C/O TANDEM 1, P2 TYRE                    |          |
| 40LH | 18/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 20140859 | repair lights not working                |          |
| 40LH | 17/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | MI | 20140519 | C/O P2 TYRE LOW TREAD                    |          |
| 40LH | 17/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | MI | 20140520 | C/O P2 RIM DUE TO LOW TREAD              |          |
| 40LH | 17/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | MI | 20140521 | RETORQUE ALL WHEEL NUTS                  | DBS S1   |
| 40LH | 17/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | MI | 20140522 | C/O P1 TYRE MIS MATCH                    |          |
| 40LH | 17/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | MI | 20140523 | C/O P1 RIM DUE TO MIS MATCH              |          |
| 40LH | 17/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN1-TYR1 | MI | 20140511 | C/O P1 TANDEM P1 TYRE                    |          |
| 40LH | 17/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN1-WHR1 | MI | 20140512 | C/O TANDEM P1 P1 RIM                     |          |
| 40LH | 17/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN1-WHR3 | MI | 20140514 | C/O TANDEM 1, P2 RIM                     |          |
| 40LH | 17/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN2-WHR2 | MI | 20140516 | C/O TANDEM 2 P1 RIM                      |          |
| 40LH | 17/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN2-WHR4 | MI | 20140518 | C/O TANDEM 2 P2 RIM                      |          |
| 40LH | 17/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20140387 | no low beam                              |          |
| 40LH | 16/03/2013 | 0:00:00 | 2060-10-70-20-GRM1008-OPCB           | MN | 20135618 | Inspect/repair cracked windsreen         | Y13W11   |
| 40LH | 16/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10174074 | Service Grader 12H 250Hr                 | Y13W11   |
| 40LH | 16/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY           | MI | 20131528 | Inspect/repair serpentine belt for crack | Y13W11   |
| 40LH | 16/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20131468 | replace U/S front lights                 | Y13W11   |
| 40LH | 16/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-MOLD      | MN | 20129609 | Insp/repair play in moldboard            | Y13W11   |
| 40LH | 16/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ECSY      | MN | 20129611 | repair top cab light u/s                 | Y13W11   |
| 40LH | 15/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-AESY      | MI | 20139317 | repair access step                       |          |
| 40LH | 13/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20138081 | repair blade assy                        |          |
| 40LH | 10/03/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20136296 | blade slide bolts missing                |          |
| 40LH | 9/03/2013  | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-EXSY      | MI | 20136215 | repair exhaust leak                      |          |
| 40LH | 6/03/2013  | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN1      | MI | 20134298 | repair p1 tandem oil leak                |          |
| 40LH | 3/03/2013  | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN1      | MN | 20129613 | repair L/H tandem                        |          |
| 40LH | 27/02/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT           | MI | 20130763 | c/o cutting edges                        |          |
| 40LH | 25/02/2013 | 0:00:00 | 2060-10-70-20-GRM1008-DRTR           | MI | 20129624 | make up spare tyres                      | DBS S5   |
| 40LH | 25/02/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-LUSY      | MI | 20129594 | engine oil leak                          | DBS S5   |
| 40LH | 23/02/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-EXSY      | MN | 20076875 | C/O MUFFLER ASSY/                        | Y13W08   |
| 40LH | 22/02/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 20128053 | oil leak @ blade lift cyl                |          |
| 40LH | 22/02/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-SCAR      | MI | 20128608 | C/O ripper boots                         |          |
| 40LH | 21/02/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-MOLD      | MN | 20118965 | c/o worn bushes and slide on blade assy/ | Y13W08   |
| 40LH | 20/02/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10155705 | Service Grader 12H 500Hr                 | Y13W08   |
| 40LH | 20/02/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-ETBE      | MN | 20098870 | Inspect/Repair Engine Oil Leak           | Y13W08   |
| 40LH | 20/02/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-HSVV      | MN | 20100624 | Inspect/Repair Oil Leak At Centre Hitch  | Y13W08   |
| 40LH | 20/02/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY-STSY      | MN | 20076879 | C/O WHEEL LEAN CYLINDER                  | Y13W08   |
| 40LH | 20/02/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-DRBR      | MI | 20127313 | reshim lift cyl & blade circle cyl       |          |
| 40LH | 20/02/2013 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB           | MN | 20093223 | Inspect/Repair Front Window Frame Rusted | Y13W08   |
| 40LH | 16/02/2013 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB           | MN | 20118101 | Repair movement in steering column/      | DBS S2   |
| 40LH | 13/02/2013 | 0:00:00 | 2060-10-70-20-GRM1008-FSSY-ECSY      | MI | 20123492 | aff fault                                | DBS S5   |
| 40LH | 7/02/2013  | 0:00:00 | 2060-10-70-20-GRM1008                | SG | 10062137 | 6M Inspection Fire System Cat12H         | DBSAFF12 |
| 40LH | 5/02/2013  | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-ECSY      | MI | 20119580 | DERATING - c/o fuel injection soleniod   | DBS S5   |
| 40LH | 2/02/2013  | 6:00:00 | 2060-10-70-20-GRM1008                | MI | 20101557 | C/O Pos 3 flat tyre                      | DBS S5   |
| 40LH | 2/02/2013  | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 20118530 | c/o blade slides                         | DBS S5   |
| 40LH | 1/02/2013  | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-ECSY      | MI | 20113907 | c/o alternator                           | DBS S5   |
| 40LH | 1/02/2013  | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 20118030 | repair crack on blade                    | DBS S5   |
| 40LH | 31/01/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-ECSY      | MI | 20117595 | engine wont start                        | DBS S5   |
| 40LH | 29/01/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 20112973 | C/O cutting edges                        |          |
| 40LH | 28/01/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10142080 | Service Grader 12H 250Hr                 | Y13W05   |
| 40LH | 28/01/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 20112644 | reshim blade slides                      | DBS S5   |
| 40LH | 25/01/2013 | 6:00:00 | 2060-10-70-20-GRM1008-DRTR-TAN1-TYR3 | MI | 20111398 | c/o flat tyre tandem left pos 3          | DBS S5   |
| 40LH | 21/01/2013 | 6:00:00 | 2060-10-70-20-GRM1008-HYSY           | MN | 20082018 | c/o blade lift cylinder cups             | DBS S5   |
| 40LH | 20/01/2013 | 6:00:00 | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20109022 | Light bracket broken at circle           | DBS S5   |
| 40LH | 16/01/2013 | 6:00:00 | 2060-10-70-20-GRM1008-ENSY-ECSY      | MI | 20107311 | Engine not starting                      | DBS S5   |
| Z4RE | 15/01/2013 | 6:00:00 | 2060-10-70-20-GRM1008-OPCB-ACSY      | SG | 10123730 | Component Change Aircon Compressor       | NOT REQ  |
| 40LH | 10/01/2013 | 6:00:00 | 2060-10-70-20-GRM1008                | MI | 20054114 | Reseal Dcv/                              | Y13W02   |
| Z4BM | 10/01/2013 | 6:00:00 | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20104668 | reweld "a" frame blade gussets           | DBS S5   |
| 40LH | 9/01/2013  | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10061641 | C/O Hydraulic Control Valve R/H Bank     | DBS S3   |
| 40LH | 9/01/2013  | 6:00:00 | 2060-10-70-20-GRM1008                | SG | 10128651 | Service Grader 12H 1000Hr                | Y13W02   |



|          |            |          |                                      |    |          |  |          |
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| 40LH     | 9/01/2013  | 6:00:00  | 2060-10-70-20-GRM1008                | MI | 20096509 | REPAIR ACTIVE FAULT CODES                | Y13W02   |
| 40LH     | 9/01/2013  | 6:00:00  | 2060-10-70-20-GRM1008-ENSY-COSY      | MN | 20087767 | C/O engine water pump assy               | Y13W02   |
| 40LH     | 9/01/2013  | 6:00:00  | 2060-10-70-20-GRM1008-IMAT-CIRC      | MN | 20078548 | reseal circle drive                      | Y13W02   |
| 40LH     | 8/01/2013  | 6:00:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20102643 | INSP/REPAIR WORN CUTTING EDGES           | DBS S5   |
| 40LH     | 6/01/2013  | 0:00:00  | 2060-10-70-20-GRM1008-OPCB           | MI | 20102644 | INSP/REPAIR RH SIDE DOOR NOT SEALING     | DBS S1   |
| 40LH     | 6/01/2013  | 6:00:00  | 2060-10-70-20-GRM1008-OPCB           | MI | 20102685 | Repair broken steering column            | DBS S5   |
| 40LH     | 4/01/2013  | 6:00:00  | 2060-10-70-20-GRM1008-IMAT-CIRC      | MI | 20102140 | Oil leak at circle drive                 | DBS S5   |
| 40LH     | 3/01/2013  | 6:00:00  | 2060-10-70-20-GRM1008-DRTR-TAN1-WHR1 | MI | 20101559 | C/O Pos 3 rim                            | DBS S5   |
| 40LH     | 3/01/2013  | 6:00:00  | 2060-10-70-20-GRM1008-IMAT-SCAR      | MN | 20101550 | Inspect/Repair Ripper Pin Missing        | DBS S1   |
| 40LH     | 25/12/2012 | 0:00:00  | 2060-10-70-20-GRM1008-OPCB           | MI | 20098477 | C/O RHS CAB DOOR                         | DBS S3   |
| 40LH     | 25/12/2012 | 6:00:00  | 2060-10-70-20-GRM1008-IMAT-MOLD      | MN | 20093198 | Inspect/Repair Blade Slides u/s          | DBS S1   |
| 40LH     | 25/12/2012 | 6:00:00  | 2060-10-70-20-GRM1008-OPCB-ACSY      | MI | 20098551 | Repair Aircon Fault                      | DBS S5   |
| 40LH     | 22/12/2012 | 6:00:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20097830 | c/o cutting edges                        | DBS S5   |
| 40LH     | 19/12/2012 | 6:00:00  | 2060-10-70-20-GRM1008                | SG | 10118035 | Service Grader 12H 250Hr                 | Y12W51   |
| 40LH     | 19/12/2012 | 6:00:00  | 2060-10-70-20-GRM1008                | MI | 20096510 | REPAIR ACTIV EFAULT CODES                | DBS S5   |
| 40LH     | 15/12/2012 | 6:00:00  | 2060-10-70-20-GRM1008-OPCB           | MN | 20094798 | Inspect/Repair Frame Behind Seat Loose   | DBS S1   |
| 40LH     | 14/12/2012 | 6:00:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20094315 | C/O Blade slides                         | DBS S5   |
| 40LH     | 14/12/2012 | 6:00:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20094486 | REPAIR BLADE ASSEMBLY                    | DBS S5   |
| 40LH     | 13/12/2012 | 6:00:00  | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20093783 | Rear lights not working                  | DBS S5   |
| 40LH     | 13/12/2012 | 6:00:00  | 2060-10-70-20-GRM1008-HYSY-HSVV      | MN | 20093638 | Inspect/Repair Oil Leak at DCVs          | DBS S5   |
| 40LH     | 12/12/2012 | 6:00:00  | 2060-10-70-20-GRM1008-IMAT-CIRC      | MN | 20093222 | Inspect/Repair Circle Teeth Worn         | DBS S1   |
| 40LH     | 7/12/2012  | 0:00:00  | 2060-10-70-20-GRM1008-IMAT-CIRC      | MN | 20090911 | Inspect/Repair Circle Pinion Leak        | DBS S1   |
| 40LH     | 5/12/2012  | 6:00:00  | 2060-10-70-20-GRM1008-ENSY-ECSY      | MN | 20089411 | repair engine stuck on high idle/ Checke | DBS S5   |
| 40LH     | 4/12/2012  | 6:00:00  | 2060-10-70-20-GRM1008-IMAT           | MI | 20088875 | c/o cutting edges                        | DBS S5   |
| 40LH     | 3/12/2012  | 6:00:00  | 2060-10-70-20-GRM1008                | SG | 10099101 | Service Grader 12H 500Hr                 | Y12W48   |
| 40LH     | 30/11/2012 | 6:00:00  | 2060-10-70-20-GRM1008-OPCB           | MN | 20082764 | c/o front wiper arms                     | DBS S5   |
| 40LH     | 30/11/2012 | 6:00:00  | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 20083931 | C/O Transmission Harness                 | DBS S2   |
| 40LH     | 26/11/2012 | 0:00:00  | 2060-10-70-20-GRM1008-OPCB-SEAT      | MI | 20085459 | C/O SEAT                                 | DBS S5   |
| 40LH     | 26/11/2012 | 6:00:00  | 2060-10-70-20-GRM1008-DRTR-TAN1-TYR1 | MI | 20085255 | c/o LH tandem pos 1 tyre                 | DBS S5   |
| 40LH     | 22/11/2012 | 6:00:00  | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20083930 | Repair lights                            | DBS S5   |
| 40LH     | 20/11/2012 | 6:00:00  | 2060-10-70-20-GRM1008-OPCB-ECSY      | MI | 20082941 | replace missing wiper blade              | DBS S5   |
| 40LH     | 17/11/2012 | 6:00:00  | 2060-10-70-20-GRM1008-DRTR-ECSY      | MI | 20081505 | ECM FAULT                                | DBS S2   |
| 40LH     | 17/11/2012 | 6:00:00  | 2060-10-70-20-GRM1008-ENSY-ECSY      | MI | 20076564 | NO THROTTLE RESPONSE                     | DBS S2   |
| 40LH     | 7/11/2012  | 0:00:00  | 2060-10-70-20-GRM1008-IMAT-MOLD      | MI | 20076339 | repair mulboard wear strips              | DBS S5   |
| 40LH-TAD | 3/11/2012  | 6:00:00  | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20074644 | C/O P2 Frame Light                       | DBS S5   |
| 40LH     | 1/11/2012  | 0:00:00  | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 20073577 | blown hyd hose                           | DBS S5   |
| 40LH     | 31/10/2012 | 6:00:00  | 2060-10-70-20-GRM1008                | SG | 10089854 | Service Grader 12H 250Hr                 | Y12W44   |
| 40LH     | 30/10/2012 | 6:00:00  | 2060-10-70-20-GRM1008                | SG | 10061639 | 250H Service 12H Cat Grader              | Y12W44   |
| 40LH     | 27/10/2012 | 6:00:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20070240 | replace cutting edges worn               | DBS S5   |
| 40LH     | 20/10/2012 | 0:00:00  | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 20068315 | repair hyd oil leak                      | DBS S5   |
| 40LH     | 20/10/2012 | 6:00:00  | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20068417 | repair work lights                       | DBS S5   |
| 40LH     | 20/10/2012 | 6:00:00  | 2060-10-70-20-GRM1008-OPCB           | MI | 20068418 | repair door latch                        | DBS S5   |
| 40LH     | 18/10/2012 | 0:00:00  | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20067181 | c/o strobe light                         | DBS S5   |
| 40LH     | 13/10/2012 | 6:00:00  | 2060-10-70-20-GRM1008-HYSY-HSVV      | MI | 20064978 | Wheel lean function not working          |          |
| 40LH     | 12/10/2012 | 6:00:00  | 2060-10-70-20-GRM1008-OPCB-ACSY      | MI | 20064317 | repair a/c wiring                        |          |
| 40LH     | 8/10/2012  | 0:00:00  | 2060-10-70-20-GRM1008                | MI | 20054117 | C/O Pinion For Circle Drive re use nut & |          |
| 40LH     | 8/10/2012  | 6:00:00  | 2060-10-70-20-GRM1008-IMAT-BLAS      | MI | 20062613 | replace blade spreader bar bearings      |          |
| 40LH     | 8/10/2012  | 6:00:00  | 2060-10-70-20-GRM1008-IMAT-DRBR      | MI | 20062498 | Repair cracks in drawbar                 |          |
| 40LH     | 7/10/2012  | 0:00:00  | 2060-10-70-20-GRM1008                | MI | 20054116 | Adjust Shoes For Circle Drive            |          |
| 40LH     | 7/10/2012  | 6:00:00  | 2060-10-70-20-GRM1008                | MN | 20054628 | C/O Blade Slides Cat12H                  |          |
| 40LH     | 7/10/2012  | 6:00:00  | 2060-10-70-20-GRM1008-FRBO-ECSY      | MI | 20062271 | replaced faulty isolator                 |          |
| 40LH     | 6/10/2012  | 0:00:00  | 2060-10-70-20-GRM1008                | MI | 20054115 | Repair Circle Drive Teeth                |          |
| 40LH     | 5/10/2012  | 0:00:00  | 2060-10-70-20-GRM1008                | MI | 20054112 | C/O King Pin Seals And Bushes            |          |
| 40LH     | 26/09/2012 | 0:00:00  | 2060-10-70-20-GRM1008                | MI | 20054111 | C/O Bushes On Centre Shaft Cylinder      |          |
| 40LH     | 26/09/2012 | 0:00:00  | 2060-10-70-20-GRM1008                | MI | 20054113 | C/O Broken Windscreen                    | DBS S1   |
| 40LH     | 26/09/2012 | 0:00:00  | 2060-10-70-20-GRM1008                | MI | 20054118 | Reshim Centre Pin On Front Axle          | DBS S2   |
| 40LH     | 26/09/2012 | 6:00:00  | 2060-10-70-20-GRM1008                | MI | 20054119 | Reshim Knuckle On A Frame                | DBS S5   |
| 40LH     | 26/09/2012 | 6:00:00  | 2060-10-70-20-GRM1008                | MN | 20054627 | inspect/repair Air Pipe And Bracket      | DBS S1   |
| 40LH     | 26/09/2012 | 6:00:00  | 2060-10-70-20-GRM1008                | MN | 20054629 | Replace Front Axle Ass                   |          |
| 40LH     | 25/09/2012 | 20:04:38 | 2060-10-70-20-GRM1008                | SG | 10061643 | Daily Inspection GRM1008                 | DBSDAILY |

# 12H

## Motor Grader



### Global Version

#### Cat® C-9 ETA Engine

|                        |        |        |
|------------------------|--------|--------|
| Base Power (all gears) | 108 kW | 145 hp |
|------------------------|--------|--------|

#### Variable Horsepower Arrangement

|             |        |        |
|-------------|--------|--------|
| - gears 1-3 | 108 kW | 145 hp |
|-------------|--------|--------|

|             |        |        |
|-------------|--------|--------|
| - gears 4-8 | 123 kW | 165 hp |
|-------------|--------|--------|

#### Variable Horsepower Plus Arrangement

|             |        |        |
|-------------|--------|--------|
| - gears 1-3 | 108 kW | 145 hp |
|-------------|--------|--------|

|             |        |        |
|-------------|--------|--------|
| - gears 4-6 | 123 kW | 165 hp |
|-------------|--------|--------|

|             |        |        |
|-------------|--------|--------|
| - gears 7-8 | 138 kW | 185 hp |
|-------------|--------|--------|

#### Weights

|                           |           |           |
|---------------------------|-----------|-----------|
| Gross Vehicle Weight-base | 14 200 kg | 31,320 lb |
|---------------------------|-----------|-----------|

|            |         |         |
|------------|---------|---------|
| front axle | 3784 kg | 8346 lb |
|------------|---------|---------|

|           |           |           |
|-----------|-----------|-----------|
| rear axle | 10 416 kg | 22,974 lb |
|-----------|-----------|-----------|

#### Moldboard

|             |         |       |
|-------------|---------|-------|
| Blade Width | 3658 mm | 12 ft |
|-------------|---------|-------|

# 12H Motor Grader

*The 12H blends productivity and durability to give you the best return on your investment.*

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## Engine

- ✓ The Cat C-9 engine is designed and rated to handle the tough loads. The Variable Horsepower option maximizes response, power, and efficiency, while the direct drive, power shift transmission optimizes blade control and versatility. **pg. 4**

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## Power Train

The power shift transmission takes full advantage of the powerful C-9 engine. Variable Horsepower uses specific torque curves for each gear range for optimum performance. Dual air system and multi-disc oil brakes assure reliable braking control. **pg. 5**

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## Hydraulics

The load-sensing hydraulic system lowers power consumption and system heat. The advanced PPC control valves provide low lever effort, balanced flow and consistent cylinder speeds for outstanding blade control. Blade float is incorporated into the blade lift valves. **pg. 6**

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## Operator's Station

- ✓ Low effort blade controls, electronic throttle control, EMS III monitoring system, and improved ventilation provide world-class operator control and comfort. Excellent front and rear visibility can increase operator confidence and productivity. **pg. 10**

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## Environmentally Responsible Design

- ✓ New engine arrangements and operator station designs reduce emissions to meet current and anticipated regulations for interior and exterior sound levels, emissions, exhaust. **pg. 12**

### ***Matched and balanced components.***

*The Cat® C-9 engine, direct-drive power shift transmission and load-sensing hydraulics are designed to work together to deliver top productivity in all applications.*

### ***Superior visibility, control layout and operating ease.***

*The operator is the single most important factor in maintaining high productivity throughout the work day. By offering the best operator's station in the industry, Caterpillar helps operators achieve peak performance.*



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### Drawbar, Circle, Moldboard

Flexible moldboard positioning and a long wheelbase improve material handling. Rugged construction and replaceable wear parts minimize operation costs. **pg. 7**

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### Structures

The 12H frame is designed and built to exceed the expectations of the customer. **pg. 8**

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### Serviceability

- ✓ Caterpillar® re-engineered inspection and service points, grouping them into a convenient left-hand side, ground level 'service center.' Ground level fueling and extended engine and hydraulic oil change intervals help minimize downtime. **pg. 9**

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### Customer Support

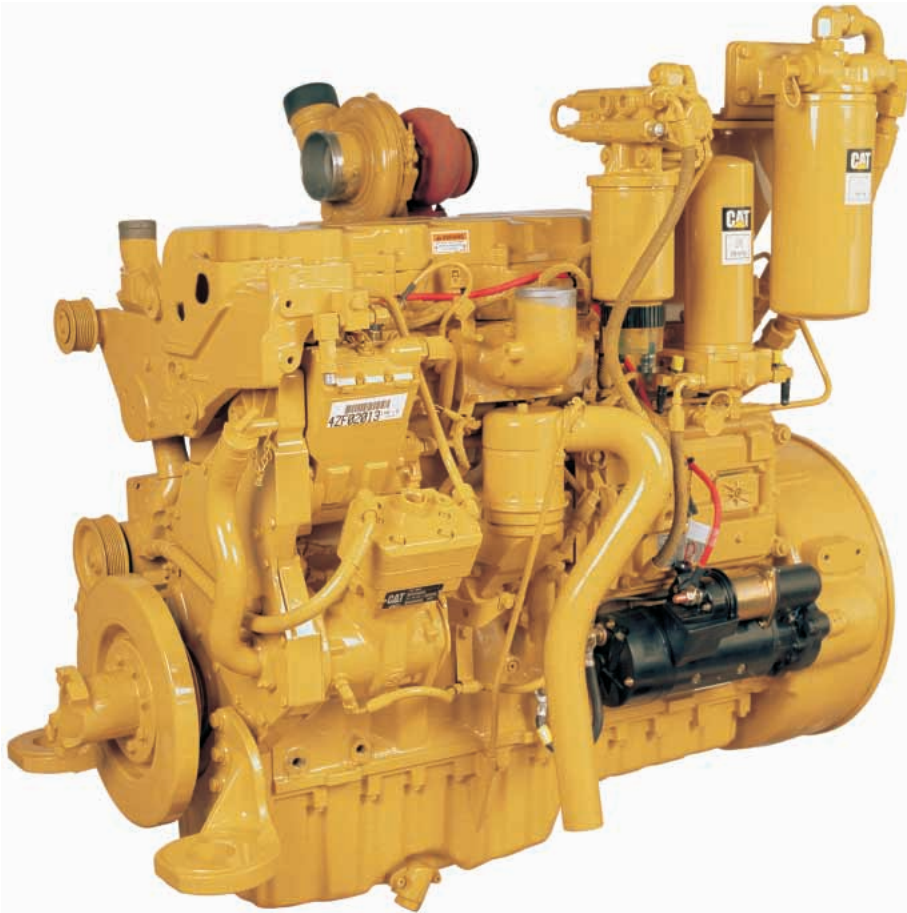
Your Cat dealer offers a range of services that help you operate longer with lower costs. **pg. 13**



✓ *New Feature*

## Engine

*Caterpillar® engines deliver increased performance and lower operating costs.*



**Cat C-9 ETA Engine.** The innovative Cat C-9 diesel engine delivers large-engine performance from a compact engine design. This six-cylinder engine is turbocharged and air-to-air aftercooled. With high displacement and low rated speed, the C-9 provides excellent fuel economy and durability that can significantly reduce operating costs.

**Variable Horsepower (VHP) and VHP Plus.** Automatically increases horsepower in higher gears when the machine can use it. In applications such as snow removal, this power allows higher travel speeds and faster snow removal for more snow clearing in less time. Also, the higher rimpull in all gears maximizes performance during high-speed winging and heavy snow load applications. In lower gears where traction is limited, horsepower is limited, reducing wheel slip and conserving fuel.

- The 12H has a VHP Plus option to provide additional horsepower in forward gears 7-8.

**Lugging Performance.** High torque output and torque rise makes the C-9 very responsive. Its superior lugging maintains consistent grading speeds without the need to downshift.

**Fuel Efficiency.** Caterpillar state-of-the-art electronically controlled, unit injection fuel system uses high injection pressures for complete fuel combustion, efficient fuel use and reduced emissions. The dual-filter system reduces component wear.

**Turbocharged and Air-To-Air Aftercooled.** Turbocharger packs more dense air into the cylinders for more complete combustion and lower emissions, improving performance and engine efficiency. These benefits are especially useful at high altitudes. Air-to-air aftercooler reduces smoke and emissions by providing cooler inlet air for more efficient combustion. This also extends the life of the piston rings and bore.

**Extended Engine Life.** The large bore-stroke design and conservative power rating minimize internal stresses and increase component life. The low engine speeds reduce engine wear and sound levels.

**Hydraulic Demand Fan.** Automatically adjusts fan speed according to engine cooling requirements. This system reduces demands on the engine, puts more power to the ground and improves fuel efficiency.

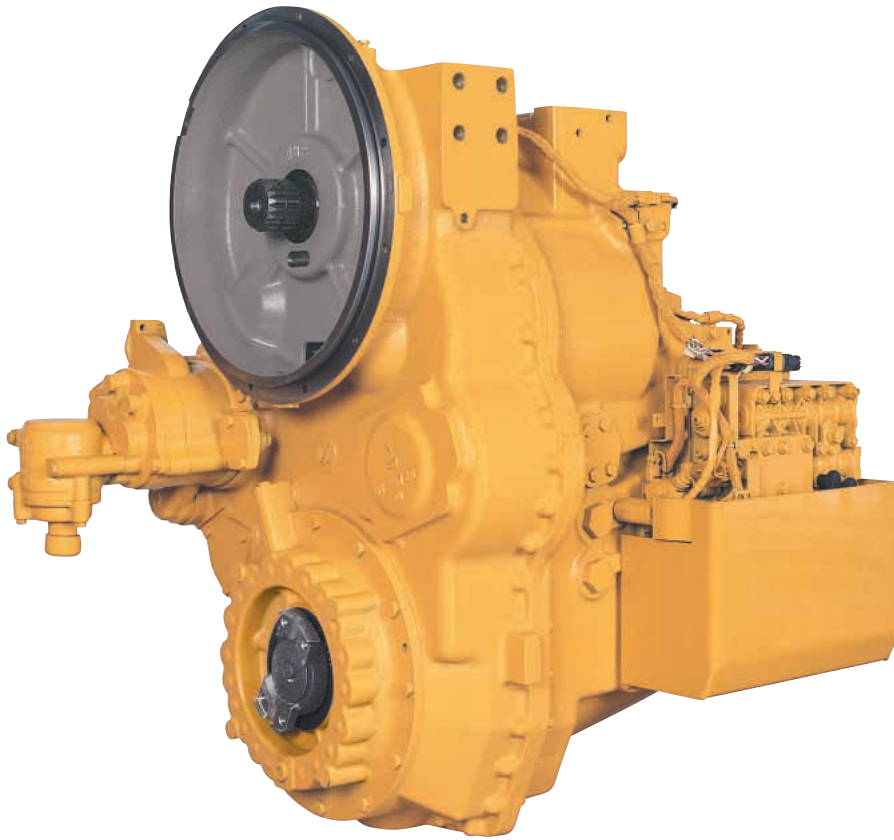
**Caterpillar Engine Oil.** It is formulated to optimize engine life and performance and is strongly recommended for use in Cat diesel engines. The engine oil change interval is increased to 500 hours.

**Improved Torque.** Power curves customized for the 12H increase peak torque for higher ground speeds and enhanced productivity. Rimpull has been increased in all gears for greater productivity.

**Emissions Compliant.** The new 12H has reduced NOx, hydrocarbon, and particulate emissions. The Cat C-9 meets or exceeds all U.S. EPA Tier 2 and EU Stage II emissions control requirements.

## Power Train

*Matched Caterpillar components deliver smooth, responsive performance and reliability.*



**Power Shift Transmission.** Designed and built specifically for Cat motor graders, the rugged transmission provides on-the-go, full-power shifting as well as inching capability.

**Direct Drive.** Delivers superior fuel efficiency and “feel” of blade loads, material hardness and ground speed.

**Gear Selection.** Eight forward and six reverse speeds offer a wide operating range for maximum flexibility. Four gears below 10.3 km/h (6.4 mph) match working speed to job conditions for maximum productivity in earthmoving jobs. Gears five, six and seven are optimal for efficient snow removal operations. Gear 8 is designed for roading.

**Electronic Transmission Control.** Produces easy, smooth shifts to maintain uniform surfaces during shifting, and extends transmission life by reducing stress on transmission clutches. A single lever controls direction, gear and the parking brake.

**Electronic Clutch Pressure Control.** ECPC smoothes shifts and improves inching control, which increases operator comfort and productivity. It uses input from the transmission and operator controls to modulate the directional clutches and produce consistent shifting.

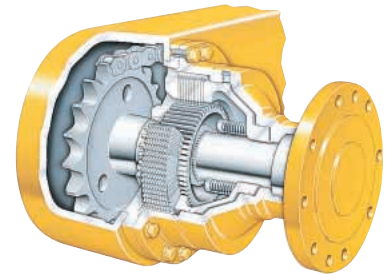
### **Electronic Overspeed Protection.**

The transmission control upshifts the transmission to relieve overspeed conditions. The transmission control will also prevent a downshift until machine speed is within the range for the requested gear. This can prevent damage and reduce component wear.

**Inching Pedal.** Delivers precise control of machine movements in any gear with low pedal effort and excellent modulation, critical in close-quarter work or finish grading. A new pedal design and location improves modulation and operator comfort.

**Optional Autoshift.** Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points.

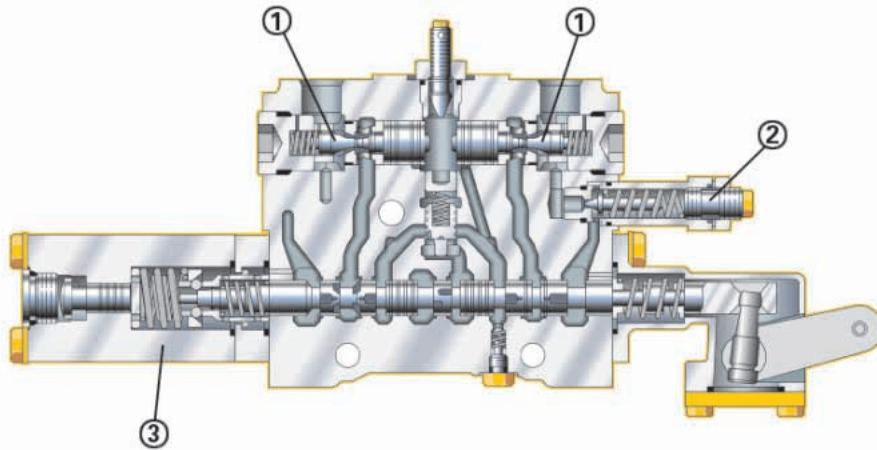
**Dual Air Tanks.** Supply braking capacity to each side of the machine. This system ensures secondary braking capability in the event a failure occurs in a single brake line. The dual air system also has a large reserve for stalled-engine braking.



**Brakes.** Caterpillar multi-disc brakes offer a large surface area for dependable, extended-life braking. The air-actuated service brakes, located in each of the four wheel spindle housings, are sealed, adjustment free, and lubricated and cooled by tandem housing oil. The parking/emergency brakes, located in the transmission on the output shaft, are spring actuated and air pressure released. When engaged, they neutralize the transmission and lock the wheels.

# Hydraulics

*Balanced hydraulics deliver consistent, precise and responsive control.*



1 Lock valve, 2 Line relief valve, 3 Blade float detent

**Load Sensing Hydraulics.** A load sensing variable displacement pump and the advanced proportional priority pressure-compensating (PPPC, or “triple-PC”) hydraulic valves provide superior implement control and enhanced machine performance and efficiency. Continuously matching hydraulic flow and pressure to power demands creates less heat and reduces power consumption.

**Implement Control Valves.** PPPC valves have different flow rates for the head and rod ends of the cylinder. This insures consistent extension and retraction properties for each cylinder, and improves operator ‘feel’ and system response. All control valves use lock valves to maintain blade settings. Line relief valves protect cylinders from excessive pressure.

**Balanced Flow.** Hydraulic flow is proportioned to ensure all implements operate simultaneously. If demand exceeds pump capacity, all cylinders are reduced by the same ratio. The result is improved productivity in virtually any application.

**Blade Float.** Blade float, incorporated into the blade lift control valves, allows the blade to move freely under its own weight. By floating both cylinders, the blade can follow the contours of the road when removing snow. Floating only one cylinder permits the toe of the blade to follow a hard surface while the operator controls the slope with the other lift cylinder.

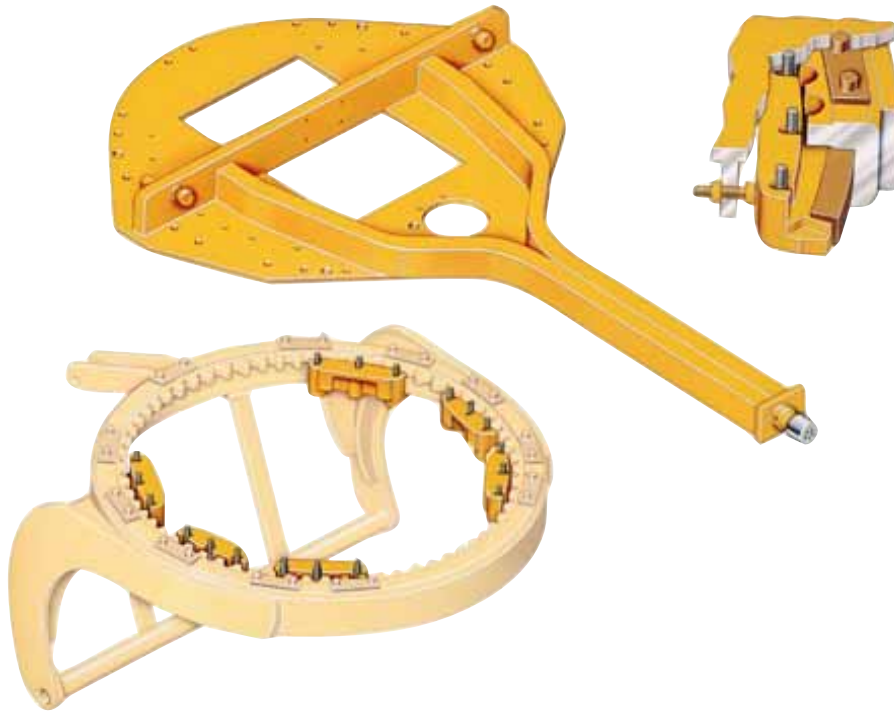
**Independent Oil Supply.** Large separate hydraulic oil supply prevents cross-contamination and provides proper oil cooling, which reduces heat build-up and extends component life.

**Heavy Duty XT™ Hose.** Caterpillar hose technology allows high pressures for maximum power and reduced downtime, while excellent routing minimizes exposure to damage.

**Optional Hydraulic Lockout.** Mechanically locks all moldboard, machine, and attachment control levers during machine roading. This prevents implements from being accidentally engaged when the motor grader is traveling down the road.

## Drawbar, Circle, Moldboard

*Every component is designed for maximum productivity and durability.*



**Blade.** Heat treated moldboard rails, through-hardened, curved DH-2™ steel cutting edge and end bits, and replaceable metallic wear inserts assure a long, reliable service life. Three sideshift mounting locations for the optional moldboard add flexibility.

**Blade Positioning.** The blade linkage design provides extensive moldboard positioning, most beneficial in mid-range bank sloping and in ditch cutting and cleaning.

**Blade Angle.** A long wheelbase allows the operator to obtain an aggressive moldboard angle. This aggressive angle permits material to roll more freely along the blade, which reduces power requirements. This is particularly helpful in handling very dry materials, cohesive soils, snow and ice.

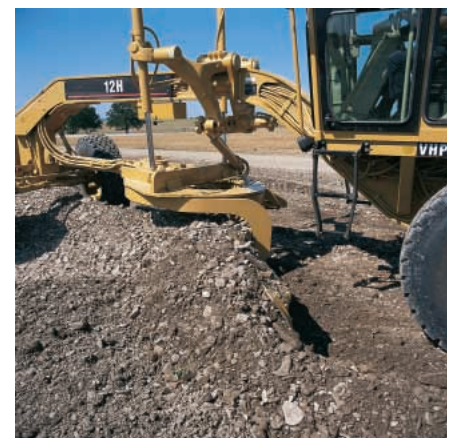
**Circle Construction.** One-piece forged circle with hydraulically driven motor stands up to high stress loads. Raised wear surfaces prevent circle teeth wear against the drawbar. Sixty-four uniformly spaced teeth on the front 240° of the circle are flame cut and heat induction hardened to resist wear. And the circle, with 360° rotation, is secured to the drawbar by six vertically and horizontally adjustable shoes for maximum support.

**Replaceable Wear Items.** Tough, durable nylon composite wear inserts are located between the drawbar and circle, and between the support shoes and circle. This sacrificial wear system helps keep components tight for fine grading and allows easy replacement. These inserts reduce rotational friction, resulting in extended component life.

**Circle Drive Slip Clutch.** The standard circle drive slip clutch protects the drawbar, slip clutch and moldboard from shock loads when the blade encounters immovable objects. It also reduces the possibility of the grader making abrupt directional changes in poor traction conditions.

**Drawbar Construction.** The Y-frame drawbar is constructed of two solid beams for high strength and optimum durability, as well as precise blading control. And the yoke plate completely covers the top of the circle.

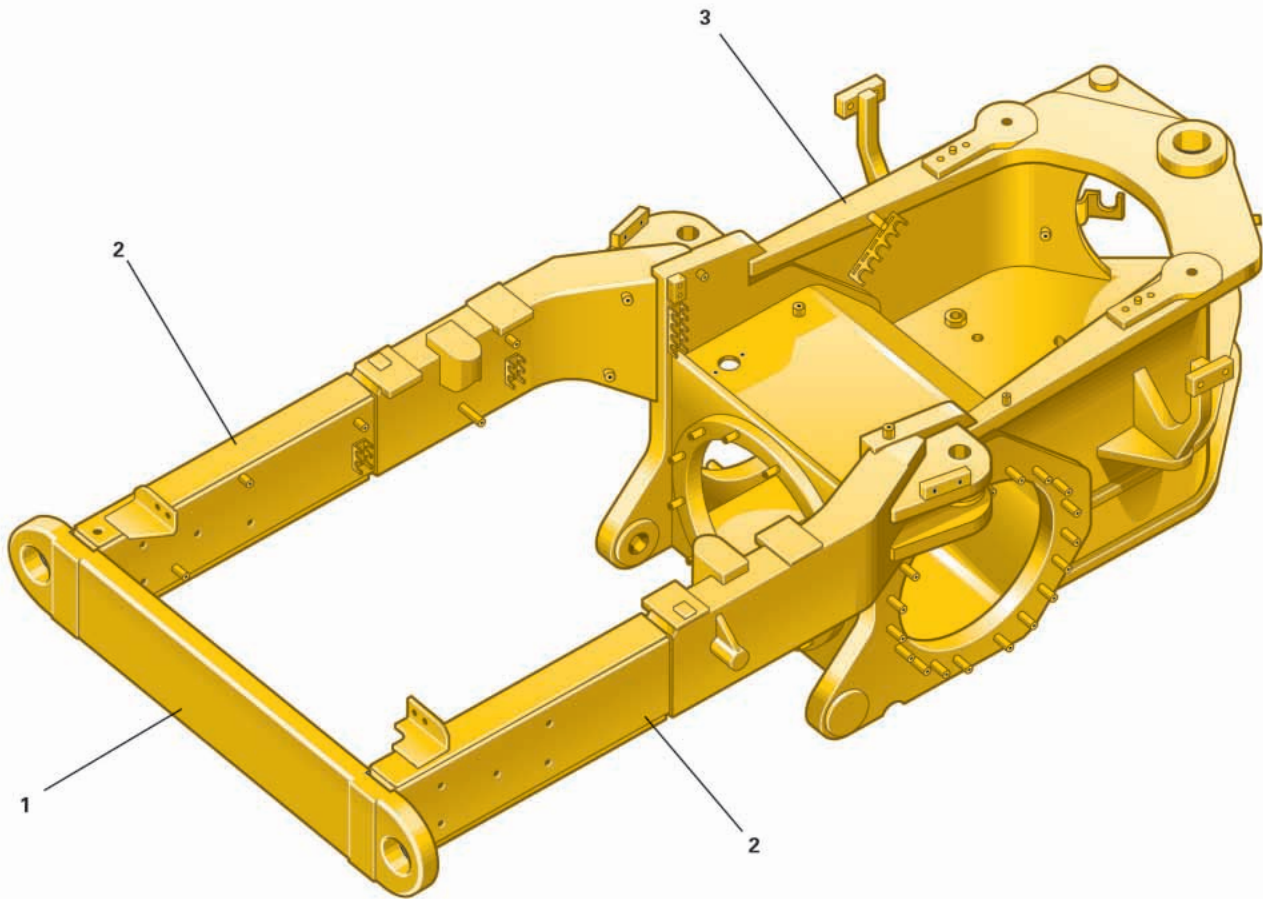
**Blade Lift Accumulators.** Optional blade lift accumulators absorb vertical shocks encountered when the moldboard contacts immovable objects. This option is especially useful in rough grading and rocky areas.





## Structures

*The 12H frame is designed and built to exceed the expectations of the customer.*



*1 Integrated bumper; 2 Box-sectioned channels; 3 Fully welded differential*

**Integrated Bumper.** The integrated bumper ties the rear frame together into a cohesive unit to provide a solid platform for the C-9 power train. This is especially important in ripping and snow removal applications where graders are equipped with snow wing attachments.

**Rear Frame.** Rear frame has two box-sectioned channels integral with fully welded differential case for a solid working platform.

**Front Frame.** Continuous top and bottom plate construction provides consistency and strength. The flanged box section design removes welds from high stress areas, improving reliability and durability, and increasing resale values for the customer.

## Serviceability

*Re-engineered inspection and service points save time and expense.*

**Service Center.** A ‘Service Center’ on the left-hand side provides easy, centralized access to most check and maintenance points. Routine inspection and service are faster and easier, for better machine availability and lower operating costs.

- Large hinged doors provide easy access to the adjacent engine and maintenance service compartments.
- Engine and hydraulic oil checkpoints, coolant gauges, and air filters
- Tandem oil checkpoint
- Spin-on filters for oils, fuel, coolant
- Remote lubrication points, purge valves and ecology drain lines
- Fuse panel with new automotive style fuses located inside cab
- Sample ports for engine, hydraulic, transmission fluids, coolant and fuel, encourages preventive maintenance and diagnostics like the S•O•S<sup>SM</sup> Analysis program.

**Fuel Tank.** The 378 L (100 gal) ground level fuel tank allows longer work shifts and reduces refueling times. An easily accessible fuel tank sediment drain enables the operator to remove sediment accumulation, reducing the risk of fuel system damage.

**Extended Fluid Change Interval.** Operate a full 500 hours between engine oil and filter changes, 4,000 hours between hydraulic oil changes, and 12,000 hours between engine coolant changes. This reduces downtime and operating expense.



**Cat XT Hose.** Caterpillar XT hose technology allows high pressures for maximum power and reduced downtime, while excellent routing minimizes exposure to damage.

**O-Ring Face Seals.** Cat O-ring face seals assure rock-solid connections that maintain pressure and reduce oil leaks. Intelligent hose routing minimizes exposure to damage, increasing hose life and enhancing reliability.

**Radiator Cleanout Access.** Radiator clean-out access gives the operator the ability to clear away debris and other materials that build up around the radiator. This ensures that the radiator functions properly keeping the engine cool and increasing component life.

## Operator's Station

*The 12H includes innovative changes to improve operator efficiency and, in turn, greater machine productivity.*



**Comfort and Convenience.** Comfort and convenience are designed into every feature of the operator's station.

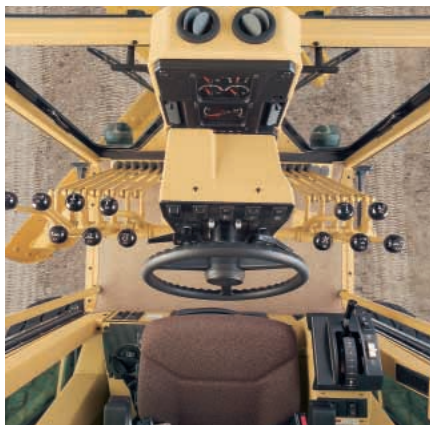
**Autoshift Transmission.** Improves ease of operation and maximizes productivity by automatically shifting the transmission at optimal shift points.

**Optimized Inching Modulation.** The new Electronic Clutch Pressure Control (ECPC) optimizes inching modulation and smoothes shifting. It also eliminates cable control, improving reliability and enhances cold oil characteristics.

**Electronic Throttle Control.** ETC provides easier, more precise, more consistent throttle operation. Two modes on a single switch offer flexibility for varying applications and operator preference. Like cruise control, ETC improves fuel efficiency.

**Electronic Monitoring System.** Powerful monitoring and diagnostic capabilities allow more efficient and safer machine operation. The Cat EMS III keeps operators better informed of machine status with:

- Continuous tracking of all critical machine parameters on a dash display
- Warnings/alerts for abnormal conditions
- Retrieval or adjustment of over 200 electronic system parameters using the powerful ET service tool



**Controls On Steering Console.** Controls and switches are located on the steering console, shift console and right cab post, all within easy reach. Gauges are located inside the cab, directly in front of the operator.

**Backlit Controls.** Rocker switches and transmission shifter are backlit for nighttime operation.

**Optional Air Conditioner/Heater.** The optional heater and air conditioner arrangements help create a comfortable work environment. The high-capacity systems dehumidify air and pressurize the cab, which circulates fresh air and seals out dust. Multiple additional vents evenly distribute air throughout the cab for clear windows and operator comfort.

**Suspension Seat.** Optional contour series suspension seat features fold-up armrests and a retractable seat belt. The seat can easily adjust for optimal support and comfort. Seat controls are located within easy reach and in plain view.

**Fresh Air Filters.** Located above each cab door for quick replacement.

**Optional 12V Power Port.** Available for use with computers, cellular phones or other electronic equipment.

**Exceptional Visibility.** Operator's console was redesigned, and large side windows allow a clear view of the moldboard heel and tandem tires. The 12H has a wide rear window and tapered engine hood. The air dryer and air leaner were moved, and the precleaner and muffler were aligned. Operators can work more confidently and efficiently.

## Environmentally Responsible Design

*Caterpillar builds machines that help you create a better world.*



**Quiet Cab.** The resiliently mounted engine and transmission reduce interior engine noise and vibration. With the sound suppression group, interior sound levels are 75 dB(A), per ISO 6394. Lower interior noise levels improve operator working conditions.

**Quiet Machine.** Exterior sound levels are 109 dB(A) per ISO 6395. The sound suppression group lowers exterior sound levels below 108 dB(A), complying with the EU 2000/14/EC sound limit of 109 dB(A). This quiet operation lets the 12H work with minimal disturbance to the surroundings.

**Low Emissions.** The 12H Motor Grader is even more environmentally friendly than its predecessors with reductions in NO<sub>x</sub>, hydrocarbon, and particulate emissions. It meets or exceeds all U.S. EPA Tier 2 and EU Stage II emissions control standards worldwide.

**Fuel Efficient.** Caterpillar state-of-the-art electronically controlled, unit injection fuel system has high injection pressure for complete fuel combustion, increased fuel efficiency and reduced emissions.

**Dry Machine.** Lubricant fill points and filters are designed to minimize spillage. O-ring face seals, Cat XT hose and Cat hydraulic cylinders protect against leaks.

**Extended Oil Change Interval.** Operate a full 500 hours between engine oil and filter changes, 4000 hours between hydraulic oil changes, and 6000 hours between engine coolant changes. This reduces downtime and operating expense.

**Ecology Drains.** Make regular maintenance easier and help prevent spills when changing fluids.

**Ozone Protection.** To help protect the earth's ozone layer, air-conditioning units use a refrigerant free of chlorofluorocarbons (CFCs).

## Customer Support

*Cat dealer services help you operate longer with lower costs.*

**Product Support.** You will find nearly all parts at our dealer parts counter. Cat dealers use a world-wide computer network to find in-stock parts to minimize machine down time. Save money with genuine Cat Reman parts. You receive the same warranty and reliability as new products at substantial cost savings.

**Machine Selection.** Make detailed comparisons of the machines under consideration before purchase. Cat dealers can estimate component life, preventive maintenance cost, and the true cost of lost production.

**Purchase.** Look past initial price. Consider the financing options available as well as day-to-day operating costs. Look at dealer services that can be included in the cost of the machine to yield lower equipment owning and operating costs over the long run.

**Customer Support Agreements.** Cat dealers offer a variety of product support agreements, and work with customers to develop a plan that best meets specific needs. These plans can cover the entire machine, including attachments, to help protect the customer's investment.

**Operation.** Improving operating techniques can boost your profits. Your Cat dealer has videotapes, literature and other ideas to help you increase productivity, and Caterpillar offers certified operator training classes to help maximize the return on your machine investment.



**Maintenance Services.** Talk to your dealer about the range of available maintenance services. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as S•O•S<sup>SM</sup> Analysis and Coolant Sampling and Technical Analysis help avoid unscheduled repairs.

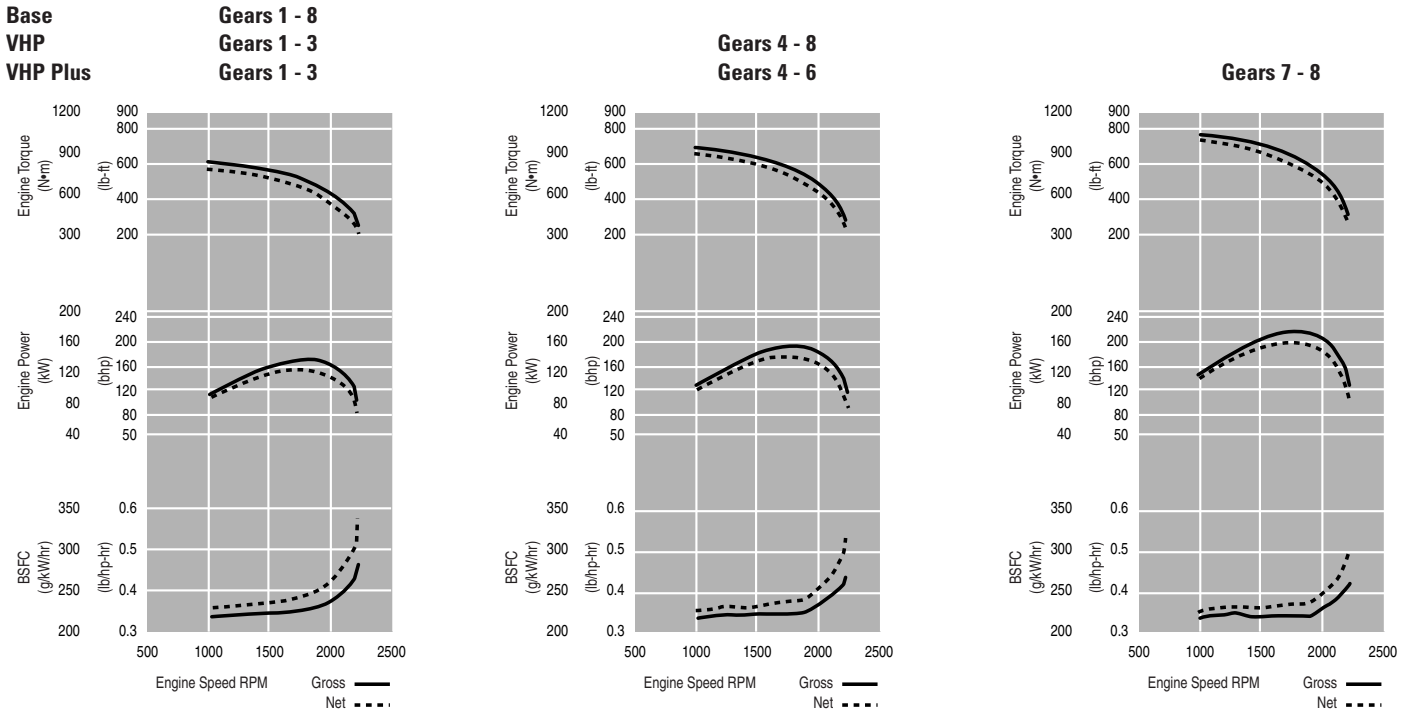
**Replacement.** Repair, rebuild or replace? Your Cat dealer can help you evaluate the cost involved so you can make the right choice.

## Engine

|                              |                 |                     |
|------------------------------|-----------------|---------------------|
| Engine Model                 | Cat C-9 ETA VHP |                     |
| Base Power (all gears) Net   | 108 kW          | 145 hp              |
| VHP - gears 1-3 Net          | 108 kW          | 145 hp              |
| - gears 4-8 Net              | 123 kW          | 165 hp              |
| VHP Plus - gears 1-3 Net     | 108 kW          | 145 hp              |
| - gears 4-6 Net              | 123 kW          | 165 hp              |
| - gears 7-8 Net              | 138 kW          | 185 hp              |
| Base Power (all gears) Gross | 116 kW          | 156 hp              |
| VHP - gears 1-3 Gross        | 116 kW          | 156 hp              |
| - gears 4-8 Gross            | 131 kW          | 176 hp              |
| VHP Plus - gears 1-3 Gross   | 116 kW          | 156 hp              |
| - gears 4-6 Gross            | 131 kW          | 176 hp              |
| - gears 7-8 Gross            | 146 kW          | 196 hp              |
| Displacement                 | 8.8 L           | 537 in <sup>3</sup> |
| Bore                         | 112 mm          | 4.4 in              |
| Stroke                       | 149 mm          | 5.9 in              |
| Torque rise                  | 50%             |                     |
| Max torque @ 1000 rpm        | 988 N•m         | 728 lb-ft           |

|                              |          |           |
|------------------------------|----------|-----------|
| Speed @ rated power          | 2000 RPM |           |
| Number of cylinders          | 6        |           |
| Derating altitude            | 3048 m   | 10,000 ft |
| Std - Fan speed - max        | 1210 RPM |           |
| - min                        | 500 RPM  |           |
| Std - Ambient Capability     | 47° C    | 117° F    |
| Hi Ambient - Fan speed - max | 1350 RPM |           |
| - min                        | 500 RPM  |           |
| Hi - Ambient Capability      | 50° C    | 122° F    |

- Net power is tested per ISO 9249, SAE J1349, and EEC 80/1269 standards in effect at the time of manufacture.
- VHP and VHP Plus are optional arrangements.
- Net power advertised is the power available at rated speed of 2000 rpm, measured at the flywheel when engine is equipped with fan, air cleaner, muffler and alternator.
- No derating required up to 3048 m (10,000 ft) altitude. Deration rate of 1.5% per 304.8 m (1000 feet) above 3048 m (10,000 feet).



## Power Train

|                         |                                 |                       |
|-------------------------|---------------------------------|-----------------------|
| Forward/Reverse Gears   | 8 fwd/6 rev                     |                       |
| Transmission            | Direct drive, power shift       |                       |
| Brakes - Service        | Air actuated multiple oil disc  |                       |
| - Service, surface area | 23 948 cm <sup>2</sup>          | 3,712 in <sup>2</sup> |
| - Parking               | Air-actuated, multiple oil-disc |                       |
| - Secondary             | Dual circuit                    |                       |

- Brakes meet the following standards: SAE J/ISO3450 JAN 98.

## Hydraulic System

|                         |                          |              |
|-------------------------|--------------------------|--------------|
| Circuit type            | Closed center load sense |              |
| Pump type               | Variable piston          |              |
| Pump output             | 196 L/min                | 51.9 gal/min |
| Maximum system pressure | 24 150 kPa               | 3,500 psi    |
| Standby Pressure        | 3100 kPa                 | 450 psi      |

- Pump output measured @ 1850 RPM

## Operating Specifications

|                                      |          |          |
|--------------------------------------|----------|----------|
| Top Speed - Fwd.                     | 44 kph   | 27.4 mph |
| - Rev.                               | 34.7 kph | 21.6 mph |
| Turning radius (outside front tires) | 7.4 m    | 24.25 ft |
| Steering range - left/right          | 50°      |          |
| Articulation angle - left/right      | 20°      |          |
| Fwd. 1st                             | 3.8 kph  | 2.3 mph  |
| 2nd                                  | 5.1 kph  | 3.2 mph  |
| 3rd                                  | 7.4 kph  | 4.6 mph  |
| 4th                                  | 10.3 kph | 6.4 mph  |
| 5th                                  | 16.2 kph | 10 mph   |
| 6th                                  | 22 kph   | 13.7 mph |
| 7th                                  | 30.3 kph | 18.8 mph |
| 8th                                  | 44 kph   | 27.4 mph |
| Rev. 1st                             | 3 kph    | 1.8 mph  |
| 2nd                                  | 5.6 kph  | 3.5 mph  |
| 3rd                                  | 8.1 kph  | 5 mph    |
| 4th                                  | 12.8 kph | 7.9 mph  |
| 5th                                  | 23.9 kph | 14.8 mph |
| 6th                                  | 34.7 kph | 21.6 mph |

## Service Refill

|                                     |       |          |
|-------------------------------------|-------|----------|
| Fuel Capacity                       | 378 L | 100 gal  |
| Cooling system                      | 44 L  | 11.6 gal |
| Hydraulic system - total            | 74 L  | 19.5 gal |
| - tank                              | 38 L  | 9.9 gal  |
| Engine Oil                          | 24 L  | 6.3 gal  |
| Differential/Final Drives           | 47 L  | 12.2 gal |
| Tandem housing (each)               | 64 L  | 16.9 gal |
| Front wheel spindle bearing housing | 0.5 L | 0.13 gal |
| Circle drive housing                | 7 L   | 1.8 gal  |

## Frame

|                                |                      |                     |
|--------------------------------|----------------------|---------------------|
| Circle - diameter              | 1530 mm              | 60.2 in             |
| - blade beam thickness         | 30 mm                | 1.2 in              |
| Drawbar - height               | 127 mm               | 5 in                |
| - thickness                    | 76 mm                | 3 in                |
| Front-top/bottom plate - width | 305 mm               | 12 in               |
| - thickness                    | 25 mm                | 1 in                |
| Front-side plates - width      | 242 mm               | 9.5 in              |
| - thickness                    | 12 mm                | 0.5 in              |
| Front-linear weights - min     | 165 kg/m             | 112 lb/ft           |
| - max                          | 213 kg/m             | 144 lb/ft           |
| Front-section modulus - min    | 2083 cm <sup>3</sup> | 127 in <sup>3</sup> |
| - max                          | 4785 cm <sup>3</sup> | 291 in <sup>3</sup> |
| Front axle - ground clearance  | 608 mm               | 23.75 in            |
| - front wheel lean             | 18°                  |                     |
| - oscillation angle            | 32°                  |                     |

## Tandems

|                              |         |         |
|------------------------------|---------|---------|
| Height                       | 506 mm  | 19.9 in |
| Width                        | 201 mm  | 7.9 in  |
| Sidewall thickness - inner   | 16 mm   | 0.63 in |
| - outer                      | 18 mm   | 0.71 in |
| Drive chain pitch            | 51 mm   | 2 in    |
| Wheel axle spacing           | 1522 mm | 60 in   |
| Tandem oscillation - forward | 15°     |         |
| - reverse                    | 25°     |         |

## Moldboard

|                         |           |           |
|-------------------------|-----------|-----------|
| Blade Width             | 3658 mm   | 12 ft     |
| Moldboard Height        | 610 mm    | 24 in     |
| Thickness               | 22 mm     | 0.87 in   |
| Arc radius              | 413 mm    | 16.25 in  |
| Throat clearance        | 120 mm    | 4.7 in    |
| Cutting edge - width    | 152 mm    | 6 in      |
| - thickness             | 16 mm     | 0.63 in   |
| End Bit - width         | 152 mm    | 6 in      |
| - thickness             | 16 mm     | 0.63 in   |
| Blade Pull - max GVW    | 13 094 kg | 28,867 lb |
| - base GVW              | 9379 kg   | 20,677 lb |
| Down Pressure - max GVW | 10 799 kg | 23,800 lb |
| - base GVW              | 6555 kg   | 14,447 lb |

- Blade Pull calculated at 0.9 traction coefficient, which is equal to ideal no-slip conditions, and Gross Vehicle Weight (GVW).



## Blade Range

|   |         |         |
|---|---------|---------|
| Circle centershift - right              | 728 mm  | 28.7 in |
| - left                                  | 695 mm  | 27.4 in |
| Moldboard sideshift - right             | 660 mm  | 26 in   |
| - left                                  | 524 mm  | 20.6 in |
| Maximum blade position angle            | 90°     |         |
| Blade tip range (forward)               | 40°     |         |
| (backward)                              | 5°      |         |
| Maximum shoulder reach outside of tires |         |         |
| - right                                 | 1809 mm | 71.2 in |
| - left                                  | 1859 mm | 73.6 in |
| Maximum lift above ground               | 480 mm  | 18.9 in |
| Maximum depth of cut                    | 735 mm  | 28.9 in |

## Ripper

|   |         |           |
|---|---------|-----------|
| Ripping depth, maximum                  | 462 mm  | 18.2 in   |
| Ripper shank holders                    | 5       |           |
| Ripper shank holder spacing             | 533 mm  | 21 in     |
| Penetration force                       | 8047 kg | 17,740 lb |
| Pryout force                            | 9281 kg | 20,460 lb |
| Machine length increase,<br>beam raised | 970 mm  | 38.2 in   |

## Scarifier

|                                   |         |         |
|-----------------------------------|---------|---------|
| Front, V-Type: Working width      | 1184 mm | 46.6 in |
| Scarifying depth,<br>maximum      | 292 mm  | 11.5 in |
| Scarifier shank<br>holders        | 11      |         |
| Scarifier shank<br>holder spacing | 116 mm  | 4.6 in  |
| Front, straight: Working width    | 1800 mm | 71 in   |
| Scarifying depth,<br>maximum      | 317 mm  | 12.5 in |
| Scarifier shank<br>holders        | 17      |         |
| Scarifier shank<br>holder spacing | 111 mm  | 4.38 in |
| Rear: Working width               | 2300 mm | 91 in   |
| Ripping depth, maximum            | 411 mm  | 16.2 in |
| Scarifier shank holders           | 9       |         |
| Scarifier shank holder<br>spacing | 267 mm  | 10.5 in |

## Weights

|                             |           |           |
|-----------------------------|-----------|-----------|
| Gross Vehicle Weight - max  | 20 783 kg | 45,818 lb |
| Front axles                 | 6234 kg   | 13,744 lb |
| Rear axles                  | 14 549 kg | 32,074 lb |
| Gross Vehicle Weight - base | 14 200 kg | 31,320 lb |
| Front axles                 | 3784 kg   | 8,346 lb  |
| Rear axles                  | 10 416 kg | 22,974 lb |

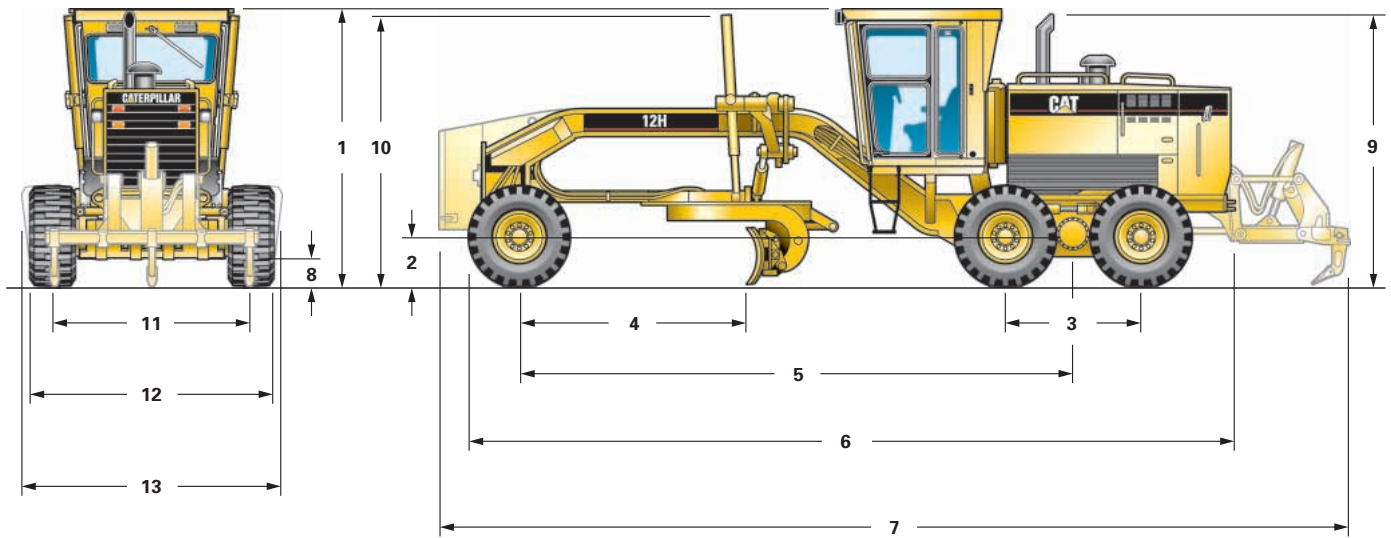
- Base operating weight calculated on standard machine configuration with 13.00-24 10PR (G-2) tires, full fuel tank, coolant, lubricants and operator.

## Cab

- ROPS (Rollover Protective Structure) meets the following criteria: SAE J1040 MAY 94, ISO 3471: 1986, ISO 3471:1994
- FOPS (Falling Object Protective Structure) meets the following criteria: ISO 3449:1984, ISO 3449:1992 Level II

# Dimensions

All dimensions are approximate.



|          |  |         |          |
|----------|--|---------|----------|
| <b>1</b> | Height - low profile cab                 | 3107 mm | 122 in   |
|          | - high profile cab                       | 3332 mm | 131 in   |
|          | - no cab                                 | 3090 mm | 122 in   |
| <b>2</b> | Height to axle                           | 594 mm  | 23.4 in  |
| <b>3</b> | Length - between tandem axles            | 1523 mm | 59.9 in  |
| <b>4</b> | Length - front axle to moldboard         | 2565 mm | 101 in   |
| <b>5</b> | Length - front axle to mid tandem        | 6086 mm | 239.6 in |
| <b>6</b> | Length - front tire to end of rear frame | 8571 mm | 337.4 in |

|           |                                  |           |          |
|-----------|----------------------------------|-----------|----------|
| <b>7</b>  | Length - counterweight to ripper | 10 012 mm | 394.2 in |
| <b>8</b>  | Ground clearance at trans. case  | 341.5 mm  | 13.4 in  |
| <b>9</b>  | Height to exhaust stack          | 3090 mm   | 122 in   |
| <b>10</b> | Height to top of cylinders       | 3030 mm   | 119 in   |
| <b>11</b> | Width - tire centerlines         | 2077 mm   | 81.8 in  |
| <b>12</b> | Width - outside rear tires       | 2422 mm   | 95.3 in  |
| <b>13</b> | Width - outside front tires      | 2440 mm   | 96 in    |

## Standard Equipment

*Standard equipment may vary. Consult your Caterpillar dealer for details.*

### ELECTRICAL

- Alarm, back-up
- Alternator, 35 ampere, sealed
- Batteries, maintenance free, 750 CCA
- Electrical system, 24 volt
- Lights, stop and tail
- Motor, starting
- Product Link connection

### OPERATOR ENVIRONMENT

- Accelerator
- Ashtray and lighter
- Coat hook
- Control console, adjustable
- Cup holder
- EMS III operator warning system
- Panel gauges inside cab
  - fuel
  - articulation
  - engine coolant temp
  - system voltage
  - air brake pressure
- Hydraulic controls, load sensing
  - right/left blade lift with float position
  - blade sideshift and tip
  - circle drive
  - centershift
  - front wheel lean
  - articulation
- Meter, hour, digital
- Mirror, inside rearview, wide angle
- Mounting bracket, general purpose
- Power steering, hydraulic
- ROPS cab, sound suppressed, low profile
- Seat, cloth, static
- Seat belt, retractable 76 mm (3 in)
- Steering wheel, tilt, adjustable
- Storage area for cooler/lunchbox
- Sunscreen, front windshield
- Throttle control, electronic
- Washer/wipers, (3) front windshields
- Windows, fixed lower front

### POWERTRAIN

- Air cleaner
  - dry type radial seal
  - service indicator
  - automatic dust ejector
- Air-to-air aftercooler (ATAAC)
- Brakes - oil disc, four-wheel air actuated
- Demand fan
- Differential, lock-unlock
- Engine, C-9 ETA diesel
  - automatic derate
  - automatic idle control
- Fuel tank, sediment drain
- Fuel-water separator
- Lube for life pump drive shaft
- Muffler, under hood
- Parking brake - multi-disc, sealed and oil cooled
- Pre-screener
- Priming pump, fuel
- Serpentine belt, automatic tensioner
- Tandem drive
- Transmission
  - 8 forward/6 reverse speeds
  - power shift
  - direct drive
  - electronic shift control
  - overspeed protection

### OTHER STANDARD EQUIPMENT

- Antifreeze -35°C (-30°F)
- Bumper, rear, integrated, with hitch
- Clutch, circle drive slip
- Cutting edges
  - 152 mm × 16 mm (6 in × 5/8 in)
  - curved DH-2 steel
  - 16 mm (5/8 in) mounting bolts
- Doors, engine compartment, locking
- Drawbar
  - 6 shoe
  - replaceable wear strips
- Endbits - 16 mm (5/8 in) DH-2 steel, mounting bolts
- Engine shutdown, ground level
- Frame, articulated with safety lock
- Fuel tank, 100 gallon (378 L)
- Fueling, ground level
- Horn, air
- Moldboard
  - 3658 mm × 610 mm × 22 mm (12 ft × 24 in × 7/8 in)
  - hydraulic sideshift and tip
- Radiator cleanout access
- S•O•S<sup>SM</sup> ports: engine, hydraulic, transmission, coolant, fuel
- Tool box

### TIRES, RIMS, AND WHEELS

Partial allowance: 13.00-24 10PR on 9" single piece rims

## Optional Equipment

Optional equipment may vary. Consult your Caterpillar dealer for details.

All weights approximate.

|   | kg   | lb   |  | kg  | lb   |
|---|------|------|--|-----|------|
| Accumulators, blade lift                                    | 71   | 156  |  |     |      |
| Air conditioner with heater and pressurizer                 | 49   | 107  |  |     |      |
| Air dryer   | 13   | 29   |  |     |      |
| Alternator, 75 ampere                                       | 7    | 15   |  |     |      |
| Autoshift, transmission                                     | 2    | 5    |  |     |      |
| Batteries, extreme duty, 1300 CCA                           | 58   | 128  |  |     |      |
| Batteries, heavy duty, 1100 CCA                             | 42   | 93   |  |     |      |
| Blade, 3658 mm × 688 mm × 25 mm<br>(12 ft × 27 in × 1 in)   | 151  | 340  |  |     |      |
| Blade, 3962 mm × 686 mm × 25 mm<br>(13 ft × 27 in × 1 in)   | 208  | 460  |  |     |      |
| Blade, 4267 mm × 610 mm × 22 mm<br>(14 ft × 24 in × 7/8 in) | 75   | 166  |  |     |      |
| Blade, 4267 mm × 688 mm × 25 mm<br>(14 ft × 27 in × 1 in)   | 261  | 574  |  |     |      |
| Blade, front-mounted 2750 mm × 980 mm<br>(9 ft × 39 in)     | 850  | 1874 |  |     |      |
| Blade, front dozer  | 1180 | 2602 |  |     |      |
| Blade, front, narrow  | 1100 | 2425 |  |     |      |
| Blade, front, with foldable ends                            | 1525 | 3362 |  |     |      |
| Cab, ROPS, high profile, sound suppressed                   | 77   | 170  |  |     |      |
| Canopy, ROPS, high profile,<br>with rear wall and window    | -41  | -90  |  |     |      |
| Converter, 25-amp, 24-V to 12-V                             | 5    | 11   |  |     |      |
| Covers, louver with screen                                  | 7    | 15   |  |     |      |
| Covers, lower rear frame                                    | 11   | 25   |  |     |      |
| Covers, metallic, fuel tank                                 | 11   | 25   |  |     |      |
| Cutting edges for 22 mm (7/8 in) thick blade                |      |      |  |     |      |
| 203 mm × 19 mm (8 in × 3/4 in) for 3.7 m blade              |      |      |  |     |      |
| 203 mm × 19 mm (8 in × 3/4 in) for 4.1 m blade              |      |      |  |     |      |
| 203 mm × 16 mm (8 in × 5/8 in) for 3.7 m blade              |      |      |  |     |      |
| 203 mm × 16 mm (8 in × 5/8 in) for 4.1 m blade              |      |      |  |     |      |
| Cutting edges for 25 mm (1 in) thick blade                  |      |      |  |     |      |
| 203 mm × 19 mm (8 in × 3/4 in) for 3.7 m blade              |      |      |  |     |      |
| 203 mm × 19 mm (8 in × 3/4 in) for 4.1 m blade              |      |      |  |     |      |
| Endbits, overlay, reversible                                | 11   | 24   |  |     |      |
| Engine, VHP or VHP Plus                                     | 4    | 10   |  |     |      |
| Ether starting aid  | 1    | 2    |  |     |      |
| Extensions, blade 610 mm (2 ft) right and left              |      |      |  |     |      |
| for 22 mm (7/8 in) thick blade                              | 114  | 250  |  |     |      |
| for 25 mm (1 in) thick blade                                | 148  | 325  |  |     |      |
| Fan, defroster, front and rear                              | 2    | 4    |  |     |      |
| Graderbit system, penetration bit type                      | 163  | 360  |  |     |      |
| Guard, brake lines  | 8    | 18   |  |     |      |
| Guard, lower platform                                       | 23   | 50   |  |     |      |
| Guard, transmission   | 98   | 215  |  |     |      |
| Hammer, with mounting                                       | 5    | 12   |  |     |      |
| Heater, engine coolant                                      | 1    | 3    |  |     |      |
| Heater, cab   | 14   | 30   |  |     |      |
| Heater, cab, with pressurizer                               | 18   | 40   |  |     |      |
|   |      |      | Hydraulic arrangements with one or more<br>additional hydraulic valves are available<br>for front scarifier, rear ripper-scarifier,<br>dozer, dozer angle, snow plow and<br>snow wing. See dealer price list.  |     |      |
|   |      |      | Hydraulic lockout  | 2   | 5    |
|   |      |      | Lighting systems:  |     |      |
|   |      |      | bar mounted, directional and headlights  | 13  | 28   |
|   |      |      | cab mounted, directional and headlights  | 9   | 20   |
|   |      |      | cab and bar mounted, directional,<br>headlights and work lights  | 22  | 48   |
|   |      |      | cab and bar mounted, high, directional,<br>headlights and work lights  | 22  | 48   |
|   |      |      | work lights, front and rear  | 6   | 13   |
|   |      |      | snow wing light, right   | 18  | 40   |
|   |      |      | warning light, cab or canopy mounted   | 3   | 6    |
|   |      |      | Mirrors, dual, inside mounted  | -   | -    |
|   |      |      | Mirrors, outside mounted   | 8   | 18   |
|   |      |      | Mirrors, outside mounted, heated   | 11  | 25   |
|   |      |      | Mount, snow wing, frame-ready  | 91  | 200  |
|   |      |      | Power port, 12-V   | 2   | 5    |
|   |      |      | Precleaner, turbine-type   | -   | -    |
|   |      |      | Push plate, front mounted  | 919 | 2025 |
|   |      |      | Radio ready, entertainment   |     |      |
|   |      |      | Receptacle, starting, plug-in  | 2   | 5    |
|   |      |      | Rims, tires - refer to dealer price list   |     |      |
|   |      |      | Ripper-scarifier, rear   | 961 | 2119 |
|   |      |      | Ripper-scarifier/tooth, one  | 33  | 72   |
|   |      |      | Rear scarifier, shanks/teeth, nine   | 65  | 144  |
|   |      |      | Scarifier, front mounted, V-type   | 845 | 1862 |
|   |      |      | Scarifier, front mounted, straight   | 903 | 1988 |
|   |      |      | Seat, cloth-covered, contour air suspension  |     |      |
|   |      |      | Seat, vinyl-covered, contour suspension  |     |      |
|   |      |      | Snow arrangements, refer to<br>Snow Arrangement Supplement   |     |      |
|   |      |      | Sound suppression  | 91  | 200  |
|   |      |      | Speedometer/tachometer   | 1   | 2    |
|   |      |      | Steering, secondary  | 50  | 111  |
|   |      |      | Sunshade, rear window  | 3   | 7    |
|   |      |      | Windows, lower front, opening  | 3   | 6    |
|   |      |      | Windows, sliding side  | 4   | 8    |
|   |      |      | Wiper and washer, rear, intermittent   | 7   | 16   |
|   |      |      | Wiper and washer, front, intermittent  |     |      |
|   |      |      | European roading group which provides<br>an additional air tank, air circuit protection<br>valve and two position lights with integral<br>turn signals. Dealer supplied equipment is<br>required to meet some specific country<br>on-road requirements | 23  | 52   |

# 12H Motor Grader

AEHQ5515-01 (2-03)

Replaces AEHQ5515

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Featured machines in photos may include additional equipment.  
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