

2011 Volvo L120F Asset IT12



Make	Volvo		Model	L120F		
Year	2011	Hours	11000		As at	01/04/2021
Mileage				km	As at	
Serial/VIN	VCEL120FK00026240			Engine Serial	11009348	
Details	<p>Un Reserved 2011 Volvo L120F Asset IT12. Updated 1:30 pm 20/05/2021 - The site has confirmed that this unit was purchased as a used machine and the hour meter was non-operational and was changed at that time. It is estimated that the frame hours would likely be around 11,000 as a guide.</p> <p>Offered for sale via Online auction in "As Is" condition, running to drive on to buyers transport. Located at Savannah Nickel Mine, via Kununurra Western Australia.</p>					
Asking price	AUD	Under review - call for pricing				
Ex site	Australia, Western Australia, Kununurra					

Service history

Updated 1:30 pm 20/05/2021 - The site has confirmed that this unit was purchased as a used machine and the hour meter was non-operational and was changed at that time. It is estimated that the frame hours would likely be around 11,000 as a guide.

**For further details, to make an offer or book an inspection, contact
Global Equipment Solutions on Office: 08 9201 1142**











VOLVO L110F, L120F IN DETAIL



Engine

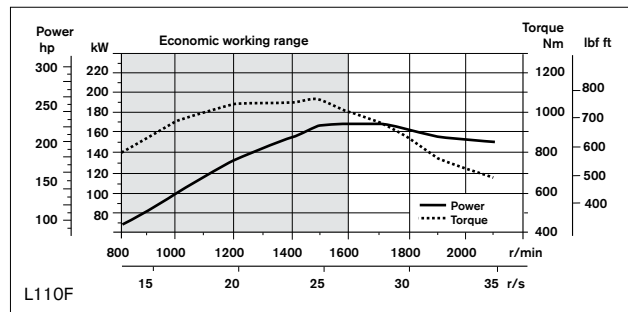
Engine: Volvo's V-ACT Tier 3 /Stage IIIA-approved, 7 liter, 6-cylinder straight turbocharged diesel engine with Common Rail fuel injection system and switchable internal Exhaust Gas Recirculation (I-EGR). The engine has wet replaceable cylinder liners and replaceable valve guides and valve seats. The throttle application is transmitted electrically from the throttle pedal or the optional hand throttle.

Air cleaning: Three-stage Cyclone precleaner - primary filter - secondary filter.

Cooling system: Air-to-air intercooler and hydrostatic, electronically controlled fan.

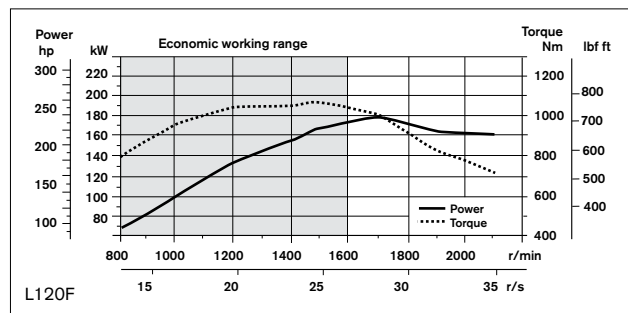
L110F

Engine	Volvo D7E LB E3
Max power at	28.3 r/s (1700 r/min)
SAE J1995 gross	170 kW (231 metric hp)
ISO 9249, SAE J1349 net	169 kW (230 metric hp)
Max torque at	25 r/s (1500 r/min)
SAE J1995 gross	1065 Nm
ISO 9249, SAE J1349 net	1059 Nm
Economic working range	800-1600 r/min
Displacement	7,1 l



L120F

Engine	Volvo D7E LA E3
Max power at	28.3 r/s (1700 r/min)
SAE J1995 gross	180 kW (245 metric hp)
ISO 9249, SAE J1349 net	179 kW (243 metric hp)
Max torque at	25 r/s (1500 r/min)
SAE J1995 gross	1065 Nm
ISO 9249, SAE J1349 net	1059 Nm
Economic working range	800-1600 r/min
Displacement	7,1 l





Drivetrain

Torque converter: single-stage. **Transmission:** Volvo countershaft transmission with single lever control. Fast and smooth shifting of gears with Pulse Width Modulation (PWM) valve. **Gearshifting system:** Volvo Automatic Power Shift (APS) with fully automatic shifting 1-4 and mode selector with 4 different gearshifting programs, including AUTO mode. **Axles:** Volvo fully floating axle shafts with planetary hub reductions and cast steel axle housing. Fixed front axle and oscillating rear axle. 100% differential lock on the front axle.

L110F

Transmission	Volvo HTE 204
Torque multiplication	2,69:1
Maximum speed, forward/reverse	
1st gear	7,0 km/h
2nd gear	13,0 km/h
3rd gear	24,4 km/h
4th gear (limited by ECU)*	37,0 km/h
Measured with tires	23.5 R25 L2
Front axle/rear axle	Volvo/AWB 31/30
Rear axle oscillation	±13°
Ground clearance at 13° osc.	460 mm

L120F

Transmission	Volvo HTE 205
Torque multiplication	2,85:1
Maximum speed, forward/reverse	
1st gear	7,0 km/h
2nd gear	13,0 km/h
3rd gear	24,4 km/h
4th gear (limited by ECU)*	37,0 km/h
Measured with tires	23.5 R25 L2
Front axle/rear axle	Volvo/AWB 31/30
Rear axle oscillation	±13°
Ground clearance at 13° osc.	460 mm

* local restrictions may apply

Electrical system

Central warning system: Contronic electrical system with central warning light and buzzer for following functions: - Serious engine fault - Low steering system pressure - Overspeed warning engine - Interruption in communication (computer failure) Central warning light and buzzer with the gear engaged for the following functions. - Low engine oil pressure - High engine oil temperature - High charge-air temperature - Low coolant level - High coolant temperature - High crankcase pressure - Low transmission oil pressure - High transmission oil temperature - Low brake pressure - Engaged parking brake - Brake charging failure - Low hydraulic oil level - High hydraulic oil temperature - Overspeeding in engaged gear - High brake cooling oil temperature front and rear axles.

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Voltage	24 V
Batteries	2x12 V
Battery capacity	2x140 Ah
Cold cranking capacity, approx.	1050 A
Reserve capacity	270 min
Alternator rating	2280 W/80 A
Starter motor output	5,5 kW (7,0 hp)

Brake system

Service brake: Volvo dual-circuit system with nitrogen-charged accumulators. Outboard-mounted hydraulically operated, fully sealed oil circulation-cooled wet disc brakes. The operator can select automatic declutch of the transmission when braking using Contronic. **Parking brake:** Fully sealed, wet multi-disc brake built into the transmission. Applied by spring force and electro-hydraulically released with a switch on the instrument panel. **Secondary brake:** Dual brake circuits with rechargeable accumulators. Either one circuit or the parking brake fulfills all safety requirements. **Standard:** The brake system complies with the requirements of ISO 3450.

L110F, L120F

Number of brake discs per wheel front/rear	1/1
Accumulators	3x1.0 l
Accumulators for parking brake	1x1.0 l

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Cab

Instrumentation: All important information is centrally located in the operator's field of vision. Display for Contronic monitoring system. **Heater and defroster:** Heater coil with filtered fresh air and fan with auto and 11 speeds. Defroster vents for all window areas. **Operator's seat:** Operator's seat with adjustable suspension and retractable seatbelt. The seat is mounted on a bracket on the rear cab wall and floor. The forces from the retractable seatbelt are absorbed by the seat rails. **Standard:** The cab is tested and approved according to ROPS (ISO 3471, SAE J1040), FOPS (ISO 3449). The cab meets with requirements according to ISO 6055 (Operator overhead protection - Industrial trucks) and SAE J386 ("Operator Restraint System").

L110F

Emergency exit	Use emergency hammer to break window
Sound level in cab according to ISO 6396/SAE J2105	LpA 68 dB (A)*
Sound level in cab according to ISO 6396/SAE J2105	LpA 70 dB (A)
External sound level according to ISO 6395/SAE J2104	LwA 106 dB (A)*
External sound level according to ISO 6395/SAE J2104	LwA 109 dB (A)
Ventilation	9 m ³ /min
Heating capacity	15 kW
Air conditioning (optional)	7,5 kW

* with noise reduction kit, EU

L120F

Emergency exit	Use emergency hammer to break window
Sound level in cab according to ISO 6396/SAE J2105	LpA 68 dB (A)*
Sound level in cab according to ISO 6396/SAE J2105	LpA 70 dB (A)
External sound level according to ISO 6395/SAE J2104	LwA 106 dB (A)*
External sound level according to ISO 6395/SAE J2104	LwA 109 dB (A)
Ventilation	9 m ³ /min
Heating capacity	15 kW
Air conditioning (optional)	7,5 kW

* with noise reduction kit, EU

Lift arm system

Torque Parallel linkage (TP-linkage) with high breakout torque and parallel action throughout the entire lifting range.

L110F

Lift cylinders	2
Cylinder bore	150 mm
Piston rod diameter	80 mm
Stroke	676 mm
Tilt cylinder	1
Cylinder bore	220 mm
Piston rod diameter	110 mm
Stroke	412 mm

L120F

Lift cylinders	2
Cylinder bore	150 mm
Piston rod diameter	80 mm
Stroke	676 mm
Tilt cylinder	1
Cylinder bore	220 mm
Piston rod diameter	110 mm
Stroke	412 mm



Hydraulic system

System supply: Two load-sensing axial piston pumps with variable displacement. The steering function always has priority. **Valves:** Double-acting 2-spool valve. The main valve is controlled by a 2-spool pilot valve. **Lift function:** The valve has four positions; lift, hold, lower, and float position. Inductive/magnetic automatic boom kick-out can be switched on and off and is adjustable to any position between maximum reach and full lifting height. **Tilt function:** The valve has three functions: rollback, hold and dump. Inductive/magnetic automatic tilt can be adjusted to the desired bucket angle. **Cylinders:** Double-acting cylinders for all functions. **Filter:** Full-flow filtration through 20 micron (absolute) filter cartridge.

L110F

Working pressure maximum, pump 1	23,6 MPa
Flow at engine speed	145 l/min 10 MPa 32 r/s (1900 r/min)
Working pressure maximum, pump 2	24,0 MPa
Flow at engine speed	110 l/min 10 MPa 32 r/s (1900 r/min)
Pilot system, working pressure	3,0-4,5 MPa
Cycle times	
Raise*	5,4 s
Tilt*	2,1 s
Lower, empty	2,5 s
Total cycle time	10,0 s

L120F

Working pressure maximum, pump 1	25,0 MPa
Flow at engine speed	145 l/min 10 MPa 32 r/s (1900 r/min)
Working pressure maximum, pump 2	26,0 MPa
Flow at engine speed	110 l/min 10 MPa 32 r/s (1900 r/min)
Pilot system, working pressure	3,0-4,5 MPa
Cycle times	
Raise*	5,4 s
Tilt*	2,1 s
Lower, empty	2,5 s
Total cycle time	10,0 s

* with load according to ISO 14397

Steering system

Steering system: Load-sensing hydrostatic articulated steering. **System supply:** The steering system has priority feed from a load-sensing axial piston pump with variable displacement. **Steering cylinders:** Two double-acting cylinders.

L110F

Steering cylinders	2
Cylinder bore	80 mm
Rod diameter	50 mm
Stroke	486 mm
Working pressure	24,0 MPa
Maximum flow	120 l/min
Maximum articulation	±40°

L120F

Steering cylinders	2
Cylinder bore	80 mm
Rod diameter	50 mm
Stroke	486 mm
Working pressure	21,0 MPa
Maximum flow	120 l/min
Maximum articulation	±40°

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Service

Service accessibility: Large, easy-to-open service doors with gas struts. Swing-out radiator grill. Fluid filters and component breather filters promote long service intervals. Possibility to log and analyze data to facilitate troubleshooting.

L110F refill capacities

Fuel tank	269 l
Engine coolant	70 l
Hydraulic oil tank	133 l
Transmission oil	38 l
Engine oil	21 l
Axle oil front/rear	36/41 l

L120F refill capacities

Fuel tank	269 l
Engine coolant	70 l
Hydraulic oil tank	133 l
Transmission oil	38 l
Engine oil	21 l
Axle oil front/rear	36/41 l

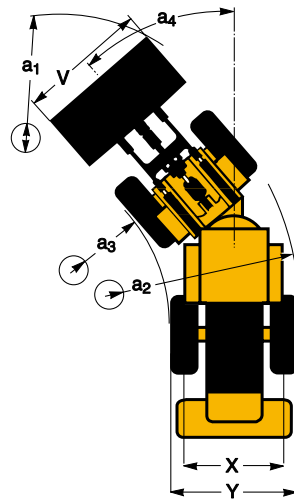


SPECIFICATIONS

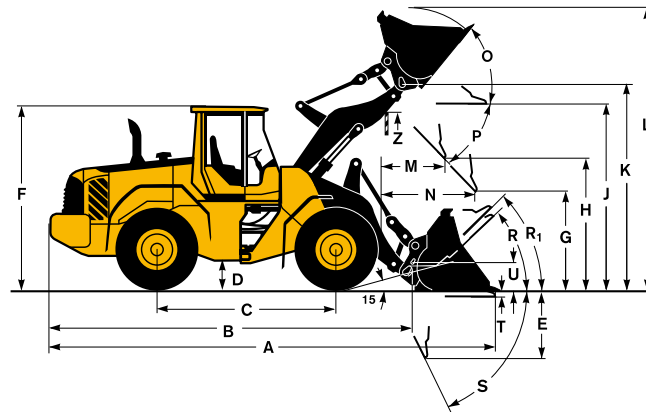
Tires: 23.5 R25 L3

	Standard boom		Long boom	
	L110F	L120F	110F	L120F
B	6470 mm	6580 mm	7000 mm	7060 mm
C	3200 mm	3200 mm	-	-
D	420 mm	420 mm	-	-
F	3360 mm	3370 mm	-	-
G	2132 mm	2133 mm	-	-
J	3690 mm	3780 mm	4220 mm	4290 mm
K	4020 mm	4090 mm	4530 mm	4610 mm
O	55 °	54 °	-	-
P _{max}	50 °	49 °	-	-
R	41 °	42 °	42 °	43 °
R ₁ *	46 °	47 °	-	-
S	66 °	67 °	64 °	64 °
T	115 mm	96 mm	105 mm	145 mm
U	470 mm	510 mm	-	-
X	2070 mm	2070 mm	-	-
Y	2670 mm	2670 mm	-	-
Z	3300 mm	3330 mm	3800 mm	3700 mm
a ₂	5730 mm	5730 mm	-	-
a ₃	3060 mm	3060 mm	-	-
a ₄	±40 °	±40 °	-	-

* Carry position SAE

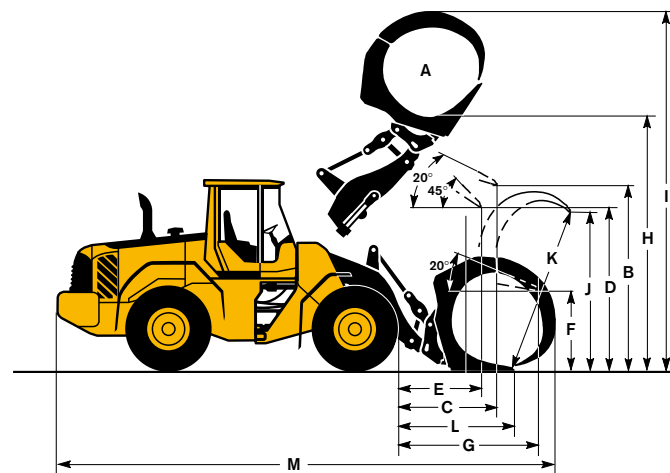


Where applicable, specifications and dimensions are according to ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 14397, SAE J818.



Tires: 750/65 R25

	L110F	L120F
A	2.4 m ²	2.4 m ²
B	3470 mm	3550 mm
C	1840 mm	1880 mm
D	2840 mm	2920 mm
E	1460 mm	1500 mm
F	1520 mm	1530 mm
G	2720 mm	2790 mm
H	4580 mm	4660 mm
I	6620 mm	6690 mm
J	2790 mm	2790 mm
K	2990 mm	2990 mm
L	2060 mm	2150 mm
M	8760 mm	8850 mm



L110F
Sales code: WLA80832
Operating weight
(incl. logging cw 680 kg): 19 820 kg
Operating load: 5850 kg

L120F
Sales code: WLA80832
Operating weight
(incl. logging cw 680 kg): 20 600 kg
Operating load: 6400 kg

Tires 23.5 R25 L3	GENERAL PURPOSE						ROCK*	LIGHT MATERIAL		LONG BOOM	
	Teeth	Bolt-on edges	Teeth	Bolt-on edges	Bolt-on edges	Bolt-on edges	Teeth & Segments	Bolt-on edges	Bolt-on edges		
Volume, heaped ISO/SAE	m ³	3,0	3,1	3,3	3,4	3,4	3,6	3,0	5,5	9,5	-
Volume at 110% fill factor	m ³	3,3	3,4	3,6	3,7	3,7	4,0	3,3	6,1	10,5	-
Static tipping load, straight	kg	14 540	13 580	13 590	14 240	13 910	13 340	14 500	12 700	12 840	-2630
at 35° turn	kg	12 920	12 010	12 030	12 620	12 310	11 780	12 860	11 180	11 270	-2390
at full turn	kg	12 440	11 550	11 570	12 140	11 830	11 330	12 370	10 730	10 810	-2320
Breakout force	kN	170,1	148,5	148,8	164,0	151,0	138,0	138,6	112,0	97,8	+6
A	mm	8200	8150	8380	8020	8130	8270	8390	8610	8920	+500
E	mm	1370	1330	1530	1200	1300	1430	1520	1740	2010	+30
H**)	mm	2800	2820	2680	2910	2840	2740	2690	2470	2260	+510
L	mm	5610	5670	5730	5690	5750	5780	5690	5900	6060	+520
M**)	mm	1330	1270	1460	1170	1250	1350	1440	1560	1760	-30
N**)	mm	1880	1830	1930	1780	1820	1860	1920	1880	1900	+430
V	mm	2880	2880	2880	3000	3000	2880	2880	3000	3400	-
a, clearance circle	mm	12 780	12 740	12 880	12 780	12 830	12 800	12 890	13 120	13 660	-
Operating weight	kg	18 980	19 310	19 270	19 200	19 380	19 430	20 010	19 630	19 950	+190

*) With L5 tires

Note: This only applies to genuine Volvo attachments.

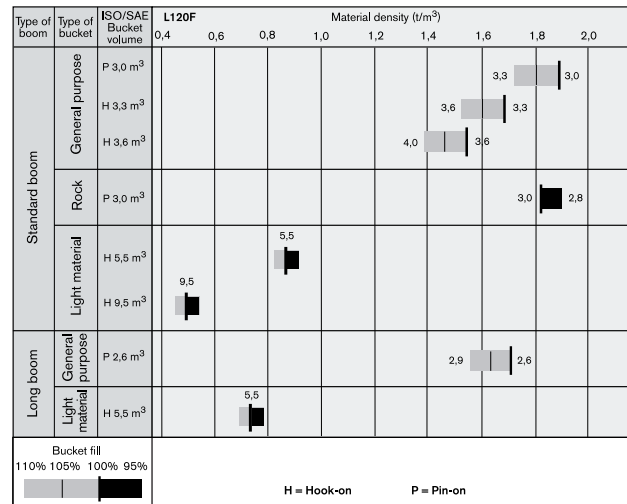
***) Measured to the tip of the bucket teeth or bolt-on edge. Dump height to bucket edge. Measured at 45° dump angle. (Spade nose buckets at 42°.)

Bucket Selection Chart

The chosen bucket is determined by the density of the material and the expected bucket fill factor. The actual bucket volume is often larger than the rated capacity, due to the features of the TP-linkage, including an open bucket design, good rollback angles in all positions and good bucket filling performance. The example represents a standard boom configuration.
Example: Sand and gravel. Fill factor ~ 105%. Density 1,65 t/m³. Result: The 3,3 m³ bucket carries 3,5 m³. For optimal stability always consult the bucket selection chart.

Material	Bucket fill, %	Material density, t/m ³	ISO/SAE bucket volume, m ³	Actual volume, m ³
Earth/Clay	~ 110	~ 1,70	3,0	~ 3,3
		~ 1,50	3,3	~ 3,6
		~ 1,40	3,6	~ 4,0
Sand/Gravel	~ 105	~ 1,80	3,0	~ 3,1
		~ 1,65	3,3	~ 3,5
		~ 1,50	3,6	~ 3,8
Aggregate	~ 100	~ 1,90	3,0	~ 3,0
		~ 1,70	3,3	~ 3,3
		~ 1,60	3,6	~ 3,6
Rock	≤ 100	~ 1,80	3,0	~ 3,0

The size of rock buckets is optimized for optimal penetration and filling capability rather than the density of the material.



How to read bucket fill factor

Supplemental Operating Data

Tires 23.5 R25 L3	Standard boom		Long boom	
	23.5 R25 L5	750/65 R25	750/65 R25	
Width over tires	mm	+30	+200	+200
Ground clearance	mm	+50	+10	+10
Tipping load, full turn	kg	+450	+380	+330
Operating weight	kg	+670	+640	+640