

Document Title: <b>Description</b>	Function Group: <b>000</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

## Description

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150E Volvo			

The L150E is a four-wheel drive wheel loader with articulated frame steering.

The L150E is equipped with a six cylinder, four-stroke, direct-injected turbocharged diesel engine of the type D9A alternatively D10B.

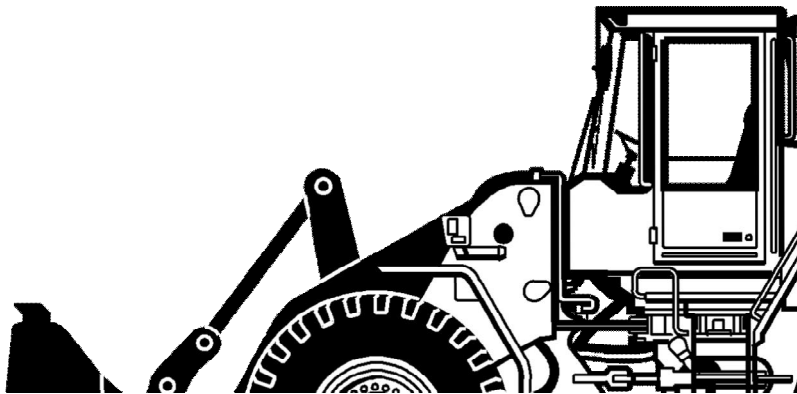
The hydro-mechanical transmission, in which all gears are in constant mesh, has the type designation HTE210. There is a single-stage hydraulic torque converter between the engine and transmission.

Front and rear axles have fully floating drive shafts with planetary type gears in the hubs. The front axle is equipped with a differential lock.

The parking and service brakes of the machine are wet, multi-disc brakes. The parking brake is positioned on the output shaft in the transmission and the service brakes are built into each wheel hub.

The steering system is hydrostatic with a variable load-sensing axial piston pump and two hydraulic cylinders (steering cylinders).

Hydraulic system, see Section 9.



**Figure 1**  
Wheel loader L150E



Document Title: <b>Measurement conversion tables</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

## Measurement conversion tables

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150E Volvo			

### Length

Unit	cm	m	km	in	ft	yd	mile
cm	1	0.01	0.00001	0.3937	0.03281	0.01094	0.000006
m	100	1	0.001	39.37	3.2808	1.0936	0.00062
km	100000	1000	1	39370.7	3280.8	1093.6	0.62137
in	2.54	0.0254	0.000025	1	0.08333	0.02777	0.000015
ft	30.48	0.3048	0.000304	12	1	0.3333	0.000189
yd	91.44	0.9144	0.000914	36	3	1	0.000568
mile	160930	1609.3	1.6093	63360	5280	1760	1

1 mm = 0.1 cm - 1 mm = 0.001 m

### Area

Unit	cm <sup>2</sup>	m <sup>2</sup>	km <sup>2</sup>	a	ft <sup>2</sup>	yd <sup>2</sup>	in <sup>2</sup>
cm <sup>2</sup>	1	0.0001	-	0.000001	0.001076	0.000012	0.155000
m <sup>2</sup>	10000	1	0.000001	0.01	10.764	1.1958	1550.000
km <sup>2</sup>	-	1000000	1	10000	1076400	1195800	-
a	0.01	100	0.0001	1	1076.4	119.58	-
ft <sup>2</sup>	-	0.092903	-	0.000929	1	0.1111	144.000
yd <sup>2</sup>	-	0.83613	-	0.008361	9	1	1296.00
in <sup>2</sup>	6.4516	0.000645	-	-	0.006943	0.000771	1

1 ha = 100 a - 1 mile<sup>2</sup> = 259 ha = 2.59 km<sup>2</sup>

### Volume

Unit	cm <sup>3</sup> = cc	m <sup>3</sup>	l	in <sup>3</sup>	ft <sup>3</sup>	yd <sup>3</sup>
cm <sup>3</sup> = ml	1	0.000001	0.001	0.061024	0.000035	0.000001
m <sup>3</sup>	1000000	1	1000	61024	35.315	1.30796
dm <sup>3</sup> (l)	1000	0.001	1	61.024	0.035315	0.001308
in <sup>3</sup>	16.387	0.000016	0.01638	1	0.000578	0.000021
ft <sup>3</sup>	28316.8	0.028317	28.317	1728	1	0.03704
yd <sup>3</sup>	764529.8	0.76453	764.53	46656	27	1

1 gal (US) = 3785.41 cm<sup>3</sup> = 231 in<sup>3</sup> = 0.83267 gal (UK)

Sample manual. Download All 2197 pages at:

<https://www.arespairmanual.com/downloads/l150e-volvo-wheel-loaders-service-manual/>

## Weight

Unit	g	kg	t	oz	lb
g	1	0.001	0.000001	0.03527	0.0022
kg	1000	1	0.001	35.273	2.20459
t	1000000	1000	1	35273	2204.59
oz	28.3495	0.02835	0.000028	1	0.0625
lb	453.592	0.45359	0.000454	16	1

1 ton (metric) = 1.1023 ton (US) = 0.9842 ton (UK)

## Pressure

Unit	kp/cm <sup>2</sup>	bar	Pa=N/m <sup>2</sup>	kPa	lbf/in <sup>2</sup>	lbf/ft <sup>2</sup>
kp/cm <sup>2</sup>	1	0.98067	98066.5	98.0665	14.2233	2048.16
bar	1.01972	1	100000	100	14.5037	2088.6
Pa=N/m <sup>2</sup>	0.00001	0.001	1	0.001	0.00015	0.02086
kPa	0.01020	0.01	1000	1	0.14504	20.886
lbf/in <sup>2</sup>	0.07032	0.0689	6894.76	6.89476	1	144
lbf/ft <sup>2</sup>	0.00047	0.00047	47.88028	0.04788	0.00694	1

kg/cm<sup>2</sup> = 735.56 Dry (mmHg) = 0.96784 atm

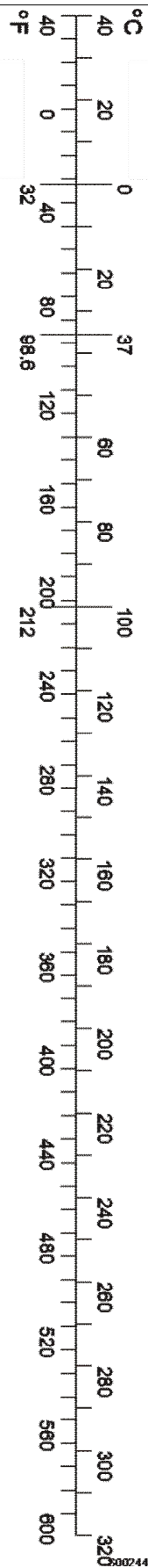
## Unit explanations

Unit	abbreviation
Newton meter	Nm
Kilopoundmeter	kpm
Kilopascal	kPa
Megapascal	MPa
Kilowatt	kW
kilojoule	kJ
British thermal unit	Btu
Calorie	ca

## Approx. conversion

SI unit	Conversion factor	Non SI	Conversion factor	SI
<b>Torque</b>				
Nm	x10.2	=kg/cm	x0.8664	=lb in
Nm	x0.74	=lbf-ft	x1.36	=Nm
Nm	x0.102	=kg/m	x7.22	=lbft
<b>Pressure (Pa = N/m<sup>2</sup>)</b>				
kPa	x4.0	=in.H <sub>2</sub> O	x0.249	=kPa
kPa	x0.30	=in.Hg	x3.38	=kPa
kPa	x0.145	=psi	x6.89	=kPa
bar	x14.5	=psi	x0.069	=bar
kp/cm <sup>2</sup>	x14.22	=psi	x0.070	=kp/cm <sup>2</sup>
N/mm <sup>2</sup>	x145.04	=psi	x0.069	=bar
MPa	x145	=psi	x0.00689	=MPa
<b>Power (W = J/s)</b>				

kW	x1.36	=hp(cv)	x0.736	=kW
kW	x1.34	=bhp	x0.746	=kW
kW	x0.948	=Btu/s	x1.055	=kW
W	x0.74	=ft.lb/s	x1.36	=W
Energy (J = Nm)				
kJ	x0.948	=Btu	x1.055	=kJ
J	x0.239	=calorie	x4.19	=J
Speed and acceleration				
m/s <sup>2</sup>	x3.28	=ft/s <sup>2</sup>	x0.305	=m/s <sup>2</sup>
m/s	x3.28	=ft/s	x0.305	=m/s
km/h	x0.62	=mph	x1.61	=km/h
Horsepower/torque				
Bhp x5252 rpm= TQ (lb-ft)			TQ x rpm 5252=bhp	
Temperature				
°C =(°F-32)/1.8			°F =(°C x1.8) +32	
Flow factor				
l/min (dm <sup>3</sup> /min)	x0.264	= US gal/min	x3.785	=liter/min



Document Title: <b>Volvo standard tightening torques</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

## Volvo standard tightening torques

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150E Volvo			

The tightening torques in the following tables apply to bolts and nuts with tensile strength. The tables should be used as a general instruction for tightening bolts and nuts without specified values. The charts contains values for course thread bolts and nuts.

Torque values should be increased with  $\approx 10\%$ , for flange bolts.

All standard torques for bolts are without surface treatment.

The standard torque for bolts lubricated with oil should be reduced with 20% of the given value.

### Standard tightening torque charts

Bolt size Metric Coarse Threads	Tensile strength 8.8		Tensile strength 10.9	
	(Nm)	(lbf ft)	(Nm)	(lbf ft)
M5	6	4	8	6
M6	10	7	14	11
M8	25	18	35	26
M10	50	37	70	52
M12	87	64	122	90
M14	139	103	195	144
M16	213	157	299	220
M18	293	216	413	305
M20	416	307	585	432
M24	719	530	1010	745
M27	1060	782	1490	1100
M30	1140	840	2025	1493
M36	2500	1844	3600	2653

Bolt size Inch SAE Coarse Threads	Tensile strength 5		Tensile strength 8	
	(lbf ft)	(Nm)	(lbf ft)	(Nm)
1/4	10	13,6	14	19
5/16	21	28,5	29	39,3
3/8	37	50,2	52	70
7/16	59	80	84	114
1/2	90	122	128	174
9/16	130	176	184	250
5/8	180	244	254	345

3/4	320	434	451	612
7/8	515	700	728	988
1	775	1052	1091	1480
1 1/8	953	1290	1545	2100
1 1/4	1344	1823	2180	2960
1 3/8	1600	2170	2650	3600
1 1/2	2000	2714	3200	4340

Document Title: <b>Engine, specifications</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

## Engine, specifications

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150E Volvo	Arvika	10001	12999

Engine	
Designation	D12DLDE3
Flywheel output at 23.3-28.3 r/s (1400-1700 rpm)	209 kW (280 hp), ISO 9249, SAE J1349
Flywheel output at 23.3-28.3 r/s (1400-1700 rpm)	210 kW (282 hp), SAE J1995 Gross
Flywheel output at 23.3-28.3 r/s (1400-1700 rpm)	187 kW (251 hp), DIN 70020, net
Torque at 23.3 r/s (1400 rpm)	1423 Nm (1049 lbf ft), ISO 9249, SAE J1349
Torque at 23.3 r/s (1400 rpm)	1432 Nm (1056 lbf ft) SAE J1995 gross
Torque at 13.3-15 r/s (800-900 rpm)	1415 Nm (1044 lbf ft) DIN 70020, net
Number of cylinders	6
Cylinder bore	131 mm (5.16 in)
Stroke	150 mm (5.91 in)
Cylinder capacity	12.13 dm <sup>3</sup> (litres) (740 in <sup>3</sup> )
Compression ratio	18.5:1
Injection sequence	1-5-3-6-2-4
Idling speed, low	725 rpm
Idle speed, high	2040 rpm
Stall speed with torque converter	1895 - 1930 rpm

Document Title: <b>Engine, weight</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

## Engine, weight

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<b>Valid for serial numbers</b>			
<b>Model</b>	<b>Production site</b>	<b>Serial number start</b>	<b>Serial number stop</b>
L150E Volvo	Arvika	6001	7549
L150E Volvo	Asheville	63001	69999

Engine, standard	1100 kg (2425 lbs)
Engine hood	250 kg (551 lbs)
Partition wall	65 kg (143 lbs)

Document Title: <b>Engine, weight</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo, L150E Volvo</b>			

## Engine, weight

Showing Selected Profile

<b>Valid for serial numbers</b>			
<b>Model</b>	<b>Production site</b>	<b>Serial number start</b>	<b>Serial number stop</b>
L150E Volvo			
L150E Volvo			

Engine, standard	1100 kg (2425 lbs)
Engine hood	250 kg (551 lbs)
Partition wall	65 kg (143 lbs)

Document Title: <b>Axles, tightening torques</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

## Tightening torques

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150E Volvo			

	Nm
Bolts, differential carrier housing	290–330
Crown wheel	280–300
Differential bearing caps	460–500
Adjusting nuts for differential bearings	30 Nm + 2–3 notches
Bolts for lock plates, adjusting nuts for differential bearings	24–30
Pinion shaft nut	2000–2500
Attaching bolts, hub reduction	290–330
Hub nut, inner	2500–3000
Hub nut, outer	400–800
Centre cover	40–50
Stop screw, differential lock	27–33

Document Title: <b>Engine, specifications</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

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## Engine, specifications

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150E Volvo	Arvika	6101	7549

Engine	
Type designation	D10B LAE2
Product number	8188146
Flywheel output at 26.7 r/s (1600 rpm)	177 kW (237 hp) DIN 70020 Net
Flywheel output at 26.7 r/s (1600 rpm)	199 kW (267 hp) ISO 9249
Flywheel output at 26.7 r/s (1600 rpm)	199 kW (267 hp) J1349 Net
Flywheel output at 26.7 r/s (1600 rpm)	199 kW (267 hp) DIN 6271 Net
Flywheel output at 26.7 r/s (1600 rpm)	200 (268 hp) kW SAE J1995 Gross
Drop-off effect at 33.3 r/s (2000 rpm)	186 kW (249 hp) SAE J1995 Gross
Maximum torque at 16.7 r/s (1000 rpm)	1255 Nm (926 lbf ft) DIN 70020 Net
Maximum torque at 20 r/s (1200 rpm)	1370 Nm (1010 lbf ft) ISO 9249
Maximum torque at 20 r/s (1200 rpm)	1370 Nm (1010 lbf ft) SAE J 1349 Net
Maximum torque at 20 r/s (1200 rpm)	1370 Nm (1010 lbf ft) DIN 1671 Net
Maximum torque at 20 r/s (1200 rpm)	1380 Nm (1018 lbf ft) J1995 Gross
Specific fuel consumption at 1400 rpm (23.3 r/s)	207 g/kWh DIN 6271 Net
Number of cylinders	6
Cylinder bore	120.7 mm (4.75 in)
Stroke	140 mm (5.51 in)
Cylinder capacity, total	9.6 dm <sup>3</sup> (litres) (586 in <sup>3</sup> )
Compression ratio	18.0:1
Compression at starter motor revolution	2.6 MPa (377 psi)
Order of injection	1-5-3-6-2-4
Idle speed, low (frequency, SE201)	11.7 ±0.4 r/s (700 ±25 rpm) (887 ±31 Hz) (887 ±31 Hz)
Idle speed, high (frequency, SE201)	35.9 ±0.4 r/s (2155 ±25 rpm) (2730 ±31 Hz)
Stall speed with torque converter (frequency, SE201)	30.2 ±0.6 r/s (1810 ±35 rpm) (2294 ±44 Hz)
Stall speed with torque converter + working hydraulics (frequency, SE201)	29.3 ±0.8 r/s (1760 ±50 rpm) (2229 ±63 Hz)

Document Title: <b>Engine, specifications</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

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## Engine, specifications

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150E Volvo	Arvika	8001	9463

### Serial no. 8001—

Engine	
Type designation	D9A LBE2
Product number	8188704
Flywheel output at 23.3 r/s (1400 rpm)	192 kW (257 hp) DIN 70020 Net
Flywheel output at 26.7 r/s (1600 rpm)	210 kW (282 hp) ISO 9249, J1349 Net
Flywheel output at 23.3 r/s (1400 rpm)	210 kW (282 hp) DIN 6271 Net
Flywheel output at 26.7 r/s (1600 rpm)	211 kW (283 hp) kW SAE J1995 Gross
Drop-off effect at 33.3 r/s (2000 rpm)	186 kW (249 hp) SAE J1995 Gross
Max. torque at 23.3 r/s (1400 rpm)	1310 Nm (966 lbf ft) DIN 70020 Net
Max. torque at 23.3 r/s (1400 rpm)	1430 Nm (1055 lbf ft) ISO 9249, SAE J 1349 Net
Max. torque at 23.3 r/s (1400 rpm)	1431 Nm (1055 lbf ft) DIN 6271 Net
Max. torque at 23.3 r/s (1400 rpm)	1440 Nm (1062 lbf ft) J1995 Gross
Specific fuel consumption at 1400 rpm (23.3 r/s)	205 g/kWh DIN 6271 Net
Number of cylinders	6
Cylinder bore	120 mm (4.72 in)
Stroke	138 mm 5.43 in)
Cylinder capacity, total	9.4 dm <sup>3</sup> (litres) (573 in <sup>3</sup> )
Compression ratio	19.2:1
Order of injection	1-5-3-6-2-4
Idle speed, low (frequency, SE201)	12.5 ±0.3 r/s (750 ±20 rpm) (950 ±23 Hz)
Idle speed, high (frequency, SE201)	36.3 ±0.8 r/s (2180 ±50 rpm) (2761 ±61 Hz)
Stall speed with torque converter (frequency, SE201)	31.2 ±0.7 r/s (1870 ±40 rpm) (2369 ±51 Hz)
Stall speed with torque converter + working hydraulics (frequency, SE201)	30.3 ±0.8 r/s (1820 ±50 rpm) (2305 ±63 Hz)

Document Title: <b>Engine, specifications</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

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## Engine, specifications

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150E Volvo	Arvika	10002	12999

Engine	
Designation	D12DLDE3
Flywheel output at 23.3-28.3 r/s (1400-1700 rpm)	209 kW (280 hp), ISO 9249, SAE J1349
Flywheel output at 23.3-28.3 r/s (1400-1700 rpm)	210 kW (282 hp), SAE J1995 Gross
Flywheel output at 23.3-28.3 r/s (1400-1700 rpm)	187 kW (251 hp), DIN 70020, net
Torque at 23.3 r/s (1400 rpm)	1423 Nm (1049 lbf ft), ISO 9249, SAE J1349
Torque at 23.3 r/s (1400 rpm)	1432 Nm (1056 lbf ft) SAE J1995 gross
Torque at 13.3-15 r/s (800-900 rpm)	1415 Nm (1044 lbf ft) DIN 70020, net
Number of cylinders	6
Cylinder bore	131 mm (5.16 in)
Stroke	150 mm (5.91 in)
Cylinder capacity	12.13 dm <sup>3</sup> (litres) (740 in <sup>3</sup> )
Compression ratio	18.5:1
Injection sequence	1-5-3-6-2-4
Idling speed, low	725 rpm
Idle speed, high	2040 rpm
Stall speed with torque converter	1895 - 1930 rpm

Document Title: <b>Fuel system, specifications</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

## Injectors, specifications

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<b>Valid for serial numbers</b>			
<b>Model</b>	<b>Production site</b>	<b>Serial number start</b>	<b>Serial number stop</b>
L150E Volvo	Arvika	6101	7549

<b>Injectors</b>	
Type	Multi-hole nozzle, 6-hole
Opening pressure	25.0 +0.8/0 MPa (3626 +116/0 psi)
Setting pressure, new springs	26.0 +0.8/0 MPa (3771 +116/0 psi)

Document Title: <b>Fuel tank, volume</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

## Fuel tank, volume

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<b>Valid for serial numbers</b>			
<b>Model</b>	<b>Production site</b>	<b>Serial number start</b>	<b>Serial number stop</b>
L150E Volvo	Arvika	10001	12999

Fuel tank total/potential	370/335 dm <sup>3</sup> (98/88 US gal)
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Document Title: <b>Lighting, specifications</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

## Lighting, specifications

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150E Volvo			

Bulbs	Watt	Socket
Headlights, asymmetric	75/70	P 43t - 38 (H4)
Parking light, front	4	BA 9 s
Parking light, rear	10	BA 15 s
Tail lights	10	BA 15 s
Brake lights	21	BA 15 s
Direction indicators, rear	21	BA 15 s
Direction indicators, side	21	BA 15 s
Side running lights	5	SV 8.5
Cab lighting	10	BA 15 s
Instrument lighting	2	BA 9 s
Control light panel	1.2	W 2x 4.6 d
Switches' guide lights	1.2	W 2x 4.6 d
Work lights, front halogen, cab <sup>(a)</sup>	70	PK 22 s (H3)
Work lights, rear halogen, cab <sup>(a)</sup>	70	PK 22 s (H3)
Work lights, front halogen[T1] ⓘ	70	PK 22 s (H3)
Work lights, rear halogen <sup>(a)</sup>	70	PK 22 s (H3)

[T1]Optional equipment.

Document Title: <b>Engine, volume</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
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## Engine, volume

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<b>Valid for serial numbers</b>			
<b>Model</b>	<b>Production site</b>	<b>Serial number start</b>	<b>Serial number stop</b>
L150E Volvo	Arvika	10001	12999

### **NOTICE**

**Stated capacity applies when changing, unless otherwise stated.**

<b>Engine</b>	
Engine oil, incl. filter when changing	48 l (12.7 US gal)

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## Engine, volume

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<b>Valid for serial numbers</b>			
<b>Model</b>	<b>Production site</b>	<b>Serial number start</b>	<b>Serial number stop</b>
L150E Volvo	Arvika	6101	9455
L150E Volvo	Asheville	63001	69999

Engine, incl. filters, total	40 dm <sup>3</sup> (2441 in <sup>3</sup> )
Engine incl. filters, during oil change	39 dm <sup>3</sup> (2380 in <sup>3</sup> )

Document Title: <b>Engine mounting, tightening torque</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

## Engine mounting, tightening torque

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Model	Production site	Serial number start	Serial number stop
L150E Volvo			

Cylinder block - mounts	120 Nm (89 lbf ft)
Flywheel housing - cylinder block	140 Nm (103 lbf ft)
Mount - tapered rubber bushing	370 Nm (273 lbf ft)
Tapered rubber bushing - frame	85 Nm (63 lbf ft)

Document Title: <b>Tightening torques, control valve</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

## Tightening torques, control valve

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<b>Valid for serial numbers</b>			
<b>Model</b>	<b>Production site</b>	<b>Serial number start</b>	<b>Serial number stop</b>
L150E Volvo	Arvika	10002	11594

<b>Engine</b>		
	<b>Nm</b>	<b>kgf m</b>
Control valve (VEB)	20	2.0

Document Title: <b>Lubrication specification</b>	Function Group: <b>system, 030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

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## Lubrication system, specification

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<b>Valid for serial numbers</b>			
<b>Model</b>	<b>Production site</b>	<b>Serial number start</b>	<b>Serial number stop</b>
L150E Volvo	Arvika	6101	7549

<b>Lubrication system</b>	
Oil pressure, operating	300 - 500 kPa (44–73 psi)
Oil pressure, minimum idling	60 kPa (8.7 psi)

Document Title: <b>Lubrication specification</b>	Function Group: <b>system, 030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

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## Lubrication system, specification

Showing Selected Profile

<b>Valid for serial numbers</b>			
<b>Model</b>	<b>Production site</b>	<b>Serial number start</b>	<b>Serial number stop</b>
L150E Volvo	Arvika	8001	12999

<b>Lubrication system</b>	
Oil pressure, operating	300 - 550 kPa (44–80 psi)
Oil pressure min. low idle, warm engine	270 kPa (39 psi)

Document Title: <b>Oil filter specifications</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

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## Oil filter specifications

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150E Volvo	Arvika	6101	7549

Oil filter	
Full flow	two
Partial flow	one
Overflow valve	
spring, length unloaded	68.8 mm (2.71 in)
loaded with 17 - 19 N	32 mm (1.26 in)
Reduction valve colour marking	Yellow

Document Title: <b>Oil filter specifications</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

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## Oil filter specifications

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150E Volvo	Arvika	8001	12999

Oil filter	
Full flow	two
Partial flow	one
Overflow valve	
spring, length unloaded	69 mm (2.72 in)
loaded with 13 - 15 N	40 mm (1.57 in)
Reduction valve colour marking	Blue

Document Title: <b>Oil cooler, specifications</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

## Oil cooler, specifications

Showing Selected Profile

<b>Valid for serial numbers</b>			
<b>Model</b>	<b>Production site</b>	<b>Serial number start</b>	<b>Serial number stop</b>
L150E Volvo			

<b>Oil cooler, bypass valve</b>	
spring, length unloaded	46 mm (1.81 in)
loaded with 53 - 55 N (11.9–12.4 lbf)	30 mm (1.18 in)

Document Title: <b>Valve system specifications</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

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## Valve system specifications

Showing Selected Profile

<b>Valid for serial numbers</b>			
<b>Model</b>	<b>Production site</b>	<b>Serial number start</b>	<b>Serial number stop</b>
L150E Volvo	Arvika	6101	7549

<b>Valve system</b>	
Valve clearance, cold engine	
Inlet valves	0.40 mm (0.016 in)
Exhaust valves	0.70 mm (0.028 in)

Document Title: <b>Valve system specifications</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

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## Valve system specifications

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<b>Valid for serial numbers</b>			
<b>Model</b>	<b>Production site</b>	<b>Serial number start</b>	<b>Serial number stop</b>
L150E Volvo	Arvika	8001	12999

<b>Valve system</b>	
Valve clearance, cold engine	
Inlet valves	0.20 mm (0.008 in)
Exhaust valves	0.50 mm (0.020 in)

Document Title: <b>Valve mechanism, double rocker arm</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

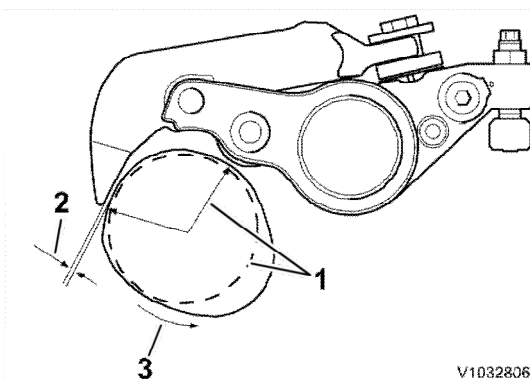
## Valve mechanism, double rocker arm

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150E Volvo	Arvika	10001	12999

Valve mechanism	
Inlet valves, valve clearance	0.20 mm
Exhaust valves (IEGR), valve clearance	0.70 mm
Clearance between double rocker arm and base circle on camshaft.	Measure with gauge 88820003

### Clearance measured between double rocker arm and base circle on camshaft.



**Figure 1**

Checking clearance between double rocker arm and base circle

1. Base circle
2. Clearance
3. Camshaft's rotational direction

### Checking and adjusting interval double rocker arm

Checking and adjustment, if needed, of the double rocker arm's clearance shall take place after 1000 hours. Thereafter together with [Valves, adjusting](#) every 4000 hours.

Document Title: <b>Fuel feed pump, specifications</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

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## Fuel feed pump, specifications

Showing Selected Profile

Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150E Volvo	Arvika	6101	7549

Fuel feed pump	
Type	Piston pump
Feed pressure	100-150 kPa (14.5–21.8 psi)



Document Title: <b>Fuel feed pump, specifications</b>	Function Group: <b>030</b>	Information Type: <b>Service Information</b>	Date: <b>4/9/2026</b>
Profile: <b>L150E Volvo</b>			

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## Fuel feed pump, specifications

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Valid for serial numbers			
Model	Production site	Serial number start	Serial number stop
L150E Volvo	Arvika	8001	12999

Fuel feed pump	
Type	Gear-driven pump
Feed pressure	100-300 kPa (14.5–43.5 psi)