FSA

Volvo Construction Equipment Building Tomorrow



John Edwards Governmental Sales Manager 850-685-7055 jedwards@cowin.com



Volvo Landfill Compactors 40.8 t/90,000 lb 416 hp



Take on the tough stuff

UNRIVALLED PERFORMANCE

- Volvo D13J Tier 4 final engine
- HTL310 transmission with lock-up converter
- Lock-up differential: dog clutch front and limited slip rear
- 24 inch ground clearance
- Terra compactor blade: straight or semi U

DURABLE BY DESIGN

- Guarding on radiator grill, center pin, swing down belly guards, front and rear differentials and axle seal
- Striker bars cover front and rear wheels
- Delayed engine shutdown
- Air pre-cleaner, engine intake



SAFETY FIRST

- ROPS/FOPS cab, fitted with windshield guard
- RESPA air filter
- Rear-view camera
- LED work lights, front, rear and side
- Rotating beacon
- Fire Suppression System

COMFORT AND CONVENIENCE

- Easy cab access
- Comfort Drive Control: lever steering
- Electronically adjusted/heated external rear view mirrors
- Single lever blade control



TERRA WHEELS: KEEP ON ROLLING

- Weld-on rolling wire guard
- 1.25 inch-thick wheel wrapper
- 8.5 inch tall cleats, three cleat configurations and two cleat patterns o Terra Twist Torque, High-Density Traction or a combination of both o Standard or inverted chevron pattern

NON-STOP SUPPORT

- 24-hour parts delivery guarantee
- Certified technicians
- ActiveCare Direct
- Customer Support Agreements
- Financial Services





INDUSTRY-LEADING ServiceAbility

For simple servicability, the Volvo cab can be tilted to either a 30° or 70° angle, and the engine hood is operated electronically. Swing down belly guards to the front, center and rear, further support convenient servicing.

Simple servicing

Regular service and maintenance is a vital part of keeping your machine in top condition and performing at its best. The LC450H is designed to make servicing simple, supporting quick and easy maintenance to keep uptime to a maximum.

Unrestricted access

Complete routine checks with speed and ease, from the ground level or machine platform. Grouped filters are accessed by removable side panels, and the remote oil drain also provides easy maintenance access. The engine oil check and fill are accessed without needing to remove any panels.



Spin on oil filters

Maintenance-free components

Minimize machine downtime and increase components life thanks to maintenance-free rear axle trunnion bearings.



Volvo LC450H in detail

Volvo r/min (r/s) kW (hp) kW (hp)

r/min (r/s) Nm (ft lbf)

Nm (ft lbf) I (in³)

D13J 1,500 (25) 310 (416) 309 (414)

1,100 (18.3) 2,343 (1,728) 2,328 (1,717) 12.8 (782)

Engine V-ACT Stage IV/Tier 4F 13 liter, 6-cylinder straight turbocharged diesel engine with 4 valves per cylinder, overhead camshaft and electronically controlled unit injectors. The engine has wet replaceable cylinder liners and replaceable valve guides and valve seats. The throttle applications is transmitted electrically from the throttle pedal or the bard distribution.

Air Cleaning: 2 stages. Cooling system: Hydrostatic, electronically controlled fan and intercooler of the air-to-air type.

Engine

Max. power at SAE J1995 gross ISO 9249, SAE J1349 net

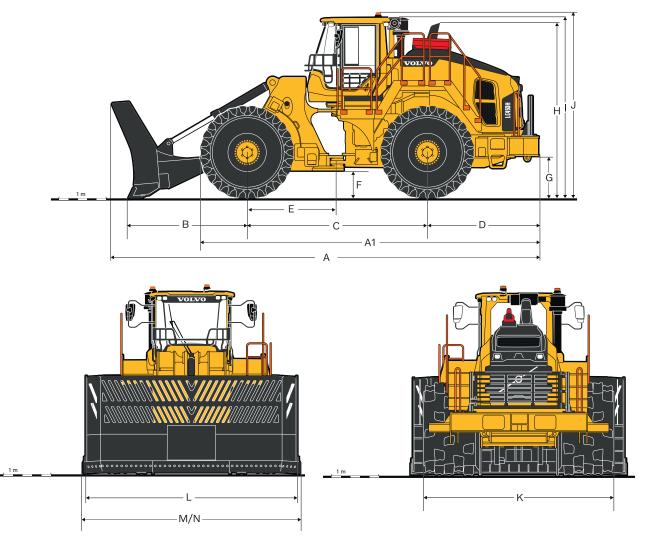
ISO 9249, SAE J1349 net Displacement

Max. torque at SAE J1995 gross

Pow				-		•			Tore	
hp 450 -	kW_			Power ar	id lorque	Curves			Nm	lbf ft
450 -	320 -								-2,400	- 1,800
400 -	300 -			\sim					- 2,200	- 1,600
375 -	280 -								-2,000	,
350 -	260 -								- 1,800	- 1,400
325	240 -	/							- 1,600	- 1,200
	220 -		÷						- 1,400	
	200 -						\rightarrow			- 1,000
250 -	180 -							•	- 1,200	800
225 - 200 -	160 -							ower orque	- 1,000	
200 1	140 -	•							- 800	600
800 1,000 1,200 1,400 1,600 1,800 2,000 r/min										
15 20 25 30 35 r/sec										
Elect	rical	System	1							
			ystem: C	ontronic	electric	al syste	m with c	entral w	/arning	
light	and b	buzzer fo	or followi	ng funct	tions: - S	Serious e	engine fa	ult - Lov	v steerii	ng
			Over sp	eed war	ning eng	gine - Int	erruptio	n in com	munica	tion
(com	iputei	r fault)	مامد ممرا ا		della della di		a a a d fa	the fell		
funct	tions.	aming iig - Low e	ght and <mark>l</mark> engine oi	il pressu	re - Hial	year eng n engine	oil temr	erature	- High c	harge
air te	emper	ature - I	_ow cool	ant leve	I - Hiah	coolant t	tempera	ture - Hi	ah cran	k case
press	sure -	Low tra	insmissio	on oil pre	essure -	High tra	nsmissio	on oil tei	nperatu	re -
Low	brake	e pressui	re - Enga	aged par	king bra	ike - Fau	It on bra	ke char	ging - Lo	w
			- High hy						n Engag	jed
		h brake	cooling o	oil tempe	erature f	ront and		es.		04
Volta							V			24 2 x 12
Batte		nacity					Ah		0	x 170
		apacity	oacity, ap	Drov			A		2	1000
		rating	acity, ap	piux			W/A		0.00	30/80
		otor out	nut				kW		2,20	7
		System					rvv			1
			e main lo	ad-sensi	ng axial r	histon pu	mp with	variable	displace	ment.
The s	steerir	a systen	n always	has prior	itv.	biston pu	mp mai	variable	aispiace	menta
Valve	e: Dou	ble-actin	ig singĺe :	spool val	vé contro	olled by a	single sp	oool pilot	valve.	
			ation thro	ugh 10 n	nicron (al	bsolute) 1	filter cartı	ridge.		
		System								
			valve ha		position	s; raise,	hold and	l lower	position	
			le acting				(.)			•
		ore diar					m (in)			1
		l diamet	er				m (in)			1 (4.7) (
Strok			ma a vilma v	ma fau					8	1 0 (4.7) 0 (3.1)
			maximu - brake				m (in)		8	1 (4.7) (
				- nilot- :	and			225+0	8 1065	1 0 (4.7) 0 (3.1) (41.9)
Flow		/		-, pilot- a	and		m (in) a (psi)	22.5±0	8	1 0 (4.7) 0 (3.1) (41.9)
at			system			MPa	a (psi)	22.5±0	8 1065).4 (3,26	1 0 (4.7) 0 (3.1) (41.9) 5±60)
						MPa min (gal	a (psi)	22.5±(8 1065 0.4 (3,26 202	1 0 (4.7) 0 (3.1) (41.9)
engir	ne sp	eed				MPa min (gal MPa	a (psi) /min)	22.5±(8 1065 0.4 (3,26 202 10 (⁻	1 0 (4.7) 0 (3.1) (41.9) 5±60) (53.4)
						MPa min (gal MPa	a (psi) /min) a (psi)	22.5±0	8 1065 0.4 (3,26 202 10 (⁻	1 0 (4.7) 0 (3.1) (41.9) 5±60) (53.4) 1,450)
			system			MPa min (gal MPa	a (psi) /min) a (psi)	22.5±(8 1065 0.4 (3,26 202 10 (⁻	1 0 (4.7) 0 (3.1) (41.9) 5±60) (53.4) 1,450) (31.6) 3
Lift Lowe	e tim	es from	system			MPa min (gal MPa	a (psi) /min) a (psi) n (r/s)	22.5±(8 1065 0.4 (3,26 202 10 (⁻	1 0 (4.7) 0 (3.1) (41.9) 5±60) (53.4) 1,450) (31.6) 3 2
Cycle Lift Lowe Total	e tim er I cycle	es from	system			MPa min (gal MPa	a (psi) /min) a (psi) n (r/s) s	22.5±0	8 1065 0.4 (3,26 202 10 (⁻	1 0 (4.7) 0 (3.1) (41.9) 5±60) (53.4) 1,450) (31.6) 3
Cycle Lift Lowe Total Blade	e tim er l cycle e Cap	es from	system			MPa min (gal MPa r/mir	a (psi) /min) a (psi) n (r/s) s s s	22.5±(8 1065 0.4 (3,26 202 10 (1 1,900	1 0 (4.7) 0 (3.1) (41.9) 5 ± 60) (53.4) 1,450) (31.6) 3 2 5
Cycle Lift Lowe Total Blade Semi	e tim er I cycle e Cap i-U	es from	system			MPa min (gal MPa r/mir m3	a (psi) /min) a (psi) n (r/s) s s s (yd3)	22.5±(8 1065 0.4 (3,26 202 10 (1 1,900	$\begin{array}{c} 1 \\ 0 (4.7) \\ 0 (3.1) \\ (41.9) \\ 5 \pm 60) \\ (53.4) \\ 1,450) \\ (31.6) \\ \hline 3 \\ 2 \\ 5 \\ \hline \\ (21.3) \end{array}$
Cycle Lift Lowe Total Blade Semi Strai	e tim er <u>l cycle</u> e Cap i-U ight	es from e time p acity	system			MPa min (gal MPa r/mir m3	a (psi) /min) a (psi) n (r/s) s s s	22.5±(8 1065 0.4 (3,26 202 10 (1 1,900	1 0 (4.7) 0 (3.1) (41.9) 5 ± 60) (53.4) 1,450) (31.6) 3 2 5
Cycle Lift Lowe Total Blade Sem Strai	e tim er I cycle e Cap i-U ight e We	es from e time p acity	system			MPa min (gal MPa r/mir m3 m3	a (psi) /min) a (psi) n (r/s) s s s (yd3) (yd3)		8 1065 0.4 (3,26) 202 10 (1,900 1,900	1 0 (4.7) 0 (3.1) (41.9) 5±60) (53.4) 1,450) (31.6) 3 2 5 (21.3) (19.5)
Cycle Lift Lowe Total Blade Semi Strai	e tim er I cycle e Cap i-U ight e Wei i-U	es from e time p acity	system			MPa min (gal MPa r/mir m3 m3	a (psi) /min) a (psi) n (r/s) s s s (yd3) (yd3) c (lb)		8 1065 0.4 (3,263 202 10 (* 1,900 16.3 14.9 3,350 (7	1 0 (4.7) 0 (3.1) (41.9) 5±60) (53.4) 1,450) (31.6) 3 2 5 (21.3) (19.5) 7,380)
Cycle Lift Lowe Total Blade Semi Strai Strai	e tim er I cycle 2 Cap i-U ight 2 We i-U ight	es from e time pacity ights	system			MPa min (gal MPa r/mir m3 m3	a (psi) /min) a (psi) n (r/s) s s s (yd3) (yd3)		8 1065 0.4 (3,26) 202 10 (1,900 1,900	1 0 (4.7) 0 (3.1) (41.9) 5±60) (53.4) 1,450) (31.6) 3 2 5 (21.3) (19.5) 7,380)
Cycle Lift Lowe Total Blade Semi Strai Steen Strai	e tim er I cycle <u>e Cap</u> i-U ight i-U ight i-U ight ring S	es from e time pacity ights System	ground	level		MPa min (gal MPa r/min m3 m3 k	a (psi) /min) a (psi) n (r/s) s s s (yd3) (yd3) (yd3) cg (lb)		8 1065 0.4 (3,263 202 10 (* 1,900 16.3 14.9 3,350 (7	1 0 (4.7) 0 (3.1) (41.9) 5±60) (53.4) 1,450) (31.6) 3 2 5 (21.3) (19.5) 7,380)
Cycle Lift Lowe Total Blade Sem Strai Blade Sem Strai Steer Steer	e tim er I cycle E Cap i-U ight i-U ight i-U ight ring S	es from e time pacity ights System ystem: l	ground	level	l/	MPa min (gal MPa r/mir m3 m3 k k k c articul	a (psi) /min) a (psi) n (r/s) s s s (yd3) (yd3) (yd3) cg (lb)		8 1065 0.4 (3,263 202 10 (* 1,900 16.3 14.9 3,350 (7	1 0 (4.7) 0 (3.1) (41.9) 5±60) (53.4) 1,450) (31.6) 3 2 5 (21.3) (19.5) 7,380)
Cycle Lift Lowe Total Blade Sem Strai Steer Steer Steer	e tim er I cycle e Cap i-U ight i-U ight i-U ight ring s ring s	es from e time bacity ights System ystem: I sylinders	ground	level	l/	MPa min (gal MPa r/mir m3 m3 k k c articuli nders.	a (psi) /min) a (psi) n (r/s) s s (yd3) (yd3) (yd3) (g (lb) sg (lb) atted stee		8 1065 0.4 (3,26) 202 10 (° 1,900 16.3 14.9 3,350 (° 3,340 (°	1 0 (4.7) 0 (3.1) (41.9) 5±60) (53.4) 1,450) (31.6) 3 2 5 (21.3) (19.5) 7,380) 7,360)
Cycle Lift Lowe Total Blade Sem Strai Steer Steer Steer Cylin	e tim er I cycle E Cap i-U ight i-U ight i-U ight ring S	es from e time acity ights System ystem: I yylinders ore	ground	level	l/	MPa min (gal MPa r/min m3 m3 k k k c articula nders. m	a (psi) /min) a (psi) n (r/s) s s s (yd3) (yd3) (yd3) (yd3) ag (lb) ated stee m (in)		8 1065 0.4 (3,26) 202 10 (° 1,900 16.3 14.9 3,350 (° 3,340 (°	1 0 (4.7) 0 (3.1) (41.9) 5±60) (53.4) 1,450) (31.6) 3 2 5 (21.3) (19.5) 7,380)
Cycle Lift Lowe Total Blade Sem Strai Steer Steer Steer Cylin	e tim er I cycle c Cap i-U ight i-U ight i-U ight ring s ring c nder b diam	es from e time acity ights System ystem: I yylinders ore	ground	level	l/	MPa min (gal MPa r/mir m3 m3 m3 k k k c articul nders mi	a (psi) /min) a (psi) n (r/s) s s (yd3) (yd3) (yd3) ag (lb) ag (lb) ated stee m (in) m (in)		8 1065 0.4 (3,26) 10 (1,900 16.3 14.9 3,350 (1 3,340 (1) 90 60	1 0 (4.7) 0 (3.1) (41.9) 5 ± 60) (53.4) 1,450) (31.6) 3 2 5 (21.3) (19.5) 7,380) 7,360) 0 (3.5) 0 (2.4)
Cycle Lift Lowe Total Blade Sem Strai Blade Strai Stee Stee Cylin Rod Strol	e tim er I cycle <u>e Cap</u> i-U ight i-U ight ring s ring s ring s diam ke	es from e time bacity ights ights ights ights ights ights ights ights ights ights ights ights	ground	level	l/	MPa min (gal MPa r/min m3 m3 m3 k k c articul nders. m m m	a (psi) /min) a (psi) n (r/s) s s (yd3) (yd3) (yd3) (yd3) ated stee m (in) m (in)		8 1065 0.4 (3,263 202 10 (° 1,900 16.3 14.9 3,350 (° 3,340 (° 3,340 (°)	1 0 (4.7) 0 (3.1) (41.9) 5±60) (53.4) 1,450) (31.6) 3 2 5 (21.3) (19.5) 7,380) 7,360) 0 (3.5)
Cycle Lift Lowe Total Blade Sem Strai Stee Stee Stee Cylin Rod Strok	e tim er I cycle <u>e Cap</u> i-U ight i-U ight ring s ring s ring s diam ke king p	es from e time acity ights System ystem: I yylinders ore	ground	level	drostati	MPa min (gal MPa r/min m3 m3 m3 k k c articul nders. m m m	a (psi) /min) a (psi) n (r/s) s s (yd3) (yd3) (yd3) (yd3) (yd3) ated stee m (in) m (in) m (in) a (psi)		8 1065 0.4 (3,263 202 10 (' 1,900 16.3 14.9 3,350 (7 3,340 (7 525 26 (1 0 (4.7) 0 (3.1) (41.9) 5 ± 60) (53.4) 1,450) (31.6) 3 2 5 (21.3) (19.5) 7,380) 7,380) 7,380) 0 (2.4) (20.7)
Cycle Lift Lowe Total Blade Sem Strai Blade Stee Stee Cylin Rod Strok Work Maxi	e tim er I cycle E Cap i-U ight i-U ight i-U ight ring s ring s ring s diam ke king p	es from e time bacity ights ights 5ystem ystem: I ylinders oore eter oressure	ground ground oad-ser : Two dc	level	drostati	MPa min (gal MPa r/min m3 m3 m3 m3 k k k c articula nders. mi m m m MPa	a (psi) /min) a (psi) n (r/s) s s (yd3) (yd3) (yd3) (yd3) (yd3) ated stee m (in) m (in) m (in) a (psi)		8 1065 0.4 (3,263 202 10 (' 1,900 16.3 14.9 3,350 (7 3,340 (7 525 26 (1 0 (4.7) 0 (3.1) (41.9) 5±60) (53.4) 1,450) (31.6) 3 2 5 (21.3) (19.5) 7,380) 7,380) 7,380) 7,380) 0 (3.5) 0 (2.4) (20.7) 3770)

working pressure	MPa (psi)	3.2 - 4.0 (465 - 58
Auxiliary Brake and cooling fan pump		
Туре		Ge
Working pressure maximum	MPa (psi)	25.0 ± 0.5 (3,62
Flow	l/min (gal/min)	±7 83 (21.
at	MPa (psi)	10 (1,45
engine speed	r/min (r/s)	1,900 (31.
Drivetrain		
Torque converter: Single-stage. Transmission: Volvo countershaft tran and smooth fully automatic shifting o (PWM) valve. Torque converter with I Axles: Volvo fully floating axle shafts v iron axle housing.	f gears 1 - 2 with Pul ockup.	se Width Modulation
Fixed front axle and oscillating rear as with limited slip rear. Axle oil cooling		l lock on the front axl
Transmission	Volvo	HTL3
Torque multiplication, stall ratio		2.02
Maximum speed, forward/reverse	km/h (mi/h)	6.7/6.6 (4.2 / 4
1st gear 2nd gear	km/h (mi/h)	9.6/9.6 (6.0 / 6.
Front axle/rear axle		AWB 50B/-
Rear axle oscillation	±	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Ground clearance	mm (in)	605 (2
Brake System Service brake: Volvo dual-circuit systen		
Parking brake: Dry disc brake. Applied a switch on the instrument panel. Secondary brake: Dual brake circuits w for the parking brake fulfills all safety re Standard: The brake discs per wheel front, Number of brake discs per wheel front,	ith rechargeable accu quirements. with the requirements	imulators. One circuit
Accumulators	l (gal)	2 x 1.0 + 1 x 0.5 (2
		$0.26 + 1 \times 0.1$
Accumulators for parking brake Wheel Dimensions	l (gal)	1 x 0.5 (1 x 0.1
Drum Diameter (OD)	mm (in)	1562 (61.
Drum Width	mm (in)	1207 (47.
Overall Diameter 8.5" Cleat	mm (in)	1994 (78.
Width over wheels	mm (ft in)	4007 (13' 1.75
nverted Chevron Pattern		<i>(</i>
Cleats Per Wheel Weight Twist Torque Cleats	kg (lb)	3,300 (7,25
Weight HDT Cleats	kg (lb)	3,235 (7,13
Weight Combination Twist Torque	kg (lb)	3,265 (7,20
(18) & HDT (12) Cleats	Kg (ID)	0,200 (1,20
Standard Chevron Pattern Cleats Per Wheel		5
Weight Twist Torque Cleats	kg (lb)	3,245 (7,16
Weight HDT Cleats	kg (lb)	3,200 (7,05
Weight Combination Twist Torque	kg (lb)	3,220 (7,10
(14) & HDT (14) Cleats Cab	kg (ib)	5,220 (7,10
Instrumentation: All important information vision. Display for Contronic monitoring sy. Heater and defroster: Heater coil with filte Defroster vents for all window areas. Operator's seat: Operator's seat with adju The seat is mounted on a bracket on the re retractable seatbelt are absorbed by the se Standard: The cab is tested and approved (ISO 3449). The cab meets with requirements accordi Industrial trucks) and SAE J386 ("Operation").	stem. red fresh air and fan wil stable suspension and ear cab wall and floor. T eat rails. according to ROPS (! ng to ISO 6055 (Oper or Restraint System"). n this machine is equic	th auto and 11 speeds, retractable seatbelt, he forces from the SO 3471), FOPS ator overhead protection oped with air conditionir
Instrumentation: All important information vision. Display for Contronic monitoring sy. Heater and defroster: Heater coil with filte Defroster vents for all window areas. Operator's seat: Operator's seat with adju The seat is mounted on a bracket on the re- retractable seatbelt are absorbed by the sy Standard: The cab is tested and approved (ISO 3449). The cab meets with requirements accordi Industrial trucks) and SAE J386 ("Operat Refrigerant of the type R134a is used whe Contains fluorinated greenhouse gas R13 Ventilation	stem. red fresh air and fan wil stable suspension and ear cab wall and floor. T eat rails. according to ROPS (! ng to ISO 6055 (Oper or Restraint System"). n this machine is equic	th auto and 11 speeds, retractable seatbelt, he forces from the SO 3471), FOPS ator overhead protection oped with air conditionin tential 1.430 t CO2-ee 9 (11.
Instrumentation: All important information vision. Display for Contronic monitoring sy. Heater and defroster: Heater coil with filte Defroster vents for all window areas. Operator's seat: Operator's seat with adju The seat is mounted on a bracket on the r retractable seatbelt are absorbed by the sy Standard: The cab is tested and approved (ISO 3449). The cab meets with requirements accordi Industrial trucks) and SAE J386 ("Operat Refrigerant of the type R134a is used whe Contains fluorinated greenhouse gas R13 Ventilation Heating capacity	stem. red fresh air and fan wil stable suspension and ear cab wall and floor. T eat rails. according to ROPS (! ng to ISO 6055 (Oper or Restraint System"). en this machine is equig 4a, Global Warming Pc m ³ /min (yd ³ /min) kW	th auto and 11 speeds, retractable seatbelt, he forces from the SO 3471), FOPS ator overhead protection oped with air conditionin tential 1.430 t CO2-eq 9 (11.
Instrumentation: All important information vision. Display for Contronic monitoring sy. Heater and defroster: Heater coil with filte Defroster vents for all window areas. Operator's seat: Operator's seat with adju The seat is mounted on a bracket on the re- retractable seatbelt are absorbed by the so Standard: The cab is tested and approved (ISO 3449). The cab meets with requirements accordi Industrial trucks) and SAE J386 ("Operation Refrigerant of the type R134a is used whe Contains fluorinated greenhouse gas R13 Ventilation Heating capacity Air conditioning	stem. red fresh air and fan wit stable suspension and ear cab wall and floor. T aat rails. according to ROPS (I: ng to ISO 6055 (Oper or Restraint System"). an this machine is equig 4.4. Global Warming Pc m ³ /min (yd ³ /min)	th auto and 11 speeds, retractable seatbelt, he forces from the SO 3471), FOPS ator overhead protection oped with air conditionin tential 1.430 t CO2-ee 9 (11.
Instrumentation: All important information vision. Display for Contronic monitoring sy Heater and defroster: Heater coil with filte Defroster vents for all window areas. Operator's seat: Operator's seat with adju The seat is mounted on a bracket on the r retractable seatbelt are absorbed by the si Standard: The cab is tested and approved (ISO 3449). The cab meets with requirements accordi Industrial trucks) and SAE J386 ("Operat Refrigerant of the type R134a is used whe Contains fluorinated greenhouse gas R13 Ventilation Heating capacity Air conditioning Service Refill Service accessibility: Large, easy-to-c department, electrically operated. Flu promote long service intervals. Possit facilitate troubleshooting.	stem. red fresh air and fan wil stable suspension and ear cab wall and floor. T eat rails. according to ROPS (If ng to ISO 6055 (Oper or Restraint System"). an this machine is equig 4a, Global Warming Pc m ³ /min (yd ³ /min) kW kW wopen hood covering v id filters and compon- bility to monitor, log a	th auto and 11 speeds, retractable seatbelt, he forces from the SO 3471), FOPS ator overhead protection oped with air conditionin tential 1.430 t CO2-eq 9 (11. 7 whole engine nent breather air filter and analyze data to
Instrumentation: All important information vision. Display for Contronic monitoring sy. Heater and defroster: Heater coil with filte Defroster vents for all window areas. Operator's seat: Operator's seat with adju The seat is mounted on a bracket on the r retractable seatbelt are absorbed by the s Standard: The cab is tested and approved (ISO 3449). The cab meets with requirements accordi Industrial trucks) and SAE J386 ("Operat Refrigerant of the type R134a is used whe Contains fluorinated greenhouse gas R13 Ventilation Heating capacity Air conditioning Service Accessibility: Large, easy-to- department, electrically operated. Flu promote long service intervals. Possib facilitate troubleshooting. Fuel tank	stem. red fresh air and fan wit stable suspension and aar cab wall and floor. T aat rails. according to ROPS (! ng to ISO 6055 (Oper or Restraint System"). ng this machine is equig 4a, Global Warming Pc m ³ /min (yd ³ /min) kW kW bpen hood covering v id filters and compoo poility to monitor, log a I (gal)	th auto and 11 speeds, retractable seatbelt, he forces from the SO 3471), FOPS ator overhead protection oped with air conditionin tential 1.430 t CO2-eq 9 (11. 7 whole engine nent breather air filter and analyze data to 731 (19
Instrumentation: All important information vision. Display for Contronic monitoring sy Heater and defroster: Heater coil with filte Defroster vents for all window areas. Operator's seat: Operator's seat with adju The seat is mounted on a bracket on the r retractable seatbelt are absorbed by the si Standard: The cab is tested and approved (ISO 3449). The cab meets with requirements accordi Industrial trucks) and SAE J386 ("Operat Refrigerant of the type R134a is used whe Contains fluorinated greenhouse gas R13 Ventilation Heating capacity Air conditioning Service Refill Service accessibility: Large, easy-to-c department, electrically operated. Flu promote long service intervals. Possit facilitate troubleshooting.	stem. red fresh air and fan wil stable suspension and ear cab wall and floor. T eat rails. according to ROPS (If ng to ISO 6055 (Oper or Restraint System"). an this machine is equig 4a, Global Warming Pc m ³ /min (yd ³ /min) kW kW wopen hood covering v id filters and compon- bility to monitor, log a	th auto and 11 speeds, retractable seatbelt, he forces from the SO 3471), FOPS ator overhead protection oped with air conditionin otential 1.430 t CO2-eq 9 (11. 7 vhole engine nent breather air filte and analyze data to 731 (19 80 (21
Instrumentation: All important information vision. Display for Contronic monitoring sy Heater and defroster: Heater coil with filte Defroster vents for all window areas. Operator's seat: Operator's seat with adju The seat is mounted on a bracket on the r retractable seatbelt are absorbed by the sy Standard: The cab is tested and approved (ISO 3449). The cab meets with requirements accordi Industrial trucks) and SAE J386 ("Operat Refrigerant of the type R134a is used whe Contains fluorinated greenhouse gas R13 Ventilation Heating capacity Air conditioning Service Refill Service Refill Service Refill Service Refill Service Refill Escrice trubuleshooting. Fuel tank DEF/AdBlue® tank Engine coolant Hydraulic oil tank	stem. red fresh air and fan wil stable suspension and aar cab wall and floor. T eat rails. according to ROPS (! ng to ISO 6055 (Oper or Restraint System"). ng this machine is equig 4a, Global Warming Pc m ³ /min (yd ³ /min) kW kw bypen hood covering v id filters and composi- bility to monitor, log a I (gal) I (gal) I (gal)	th auto and 11 speeds, retractable seatbelt, he forces from the SO 3471), FOPS ator overhead protection oped with air conditionin tential 1.430 t CO2-eq 9 (11. 7 vhole engine nent breather air filter and analyze data to 731 (19 80 (21 55 (14. 226 (59)
Instrumentation: All important information vision. Display for Contronic monitoring sy Heater and defroster: Heater coil with filte Defroster vents for all window areas. Operator's seat: Operator's seat with adju The seat is mounted on a bracket on the re- retractable seatbelt are absorbed by the so Standard: The cab is tested and approved (ISO 3449). The cab meets with requirements accordin Industrial trucks) and SAE J386 ("Operat Refrigerant of the type R134a is used whe Contains fluorinated greenhouse gas R13 Ventilation Heating capacity Air conditioning Service accessibility: Large, easy-to- department, electrically operated. Flu promote long service intervals. Possit facilitate troubleshooting. Fuel tank DEF/AdBlue® tank Engine coolant Hydraulic oil tank Transmission oil	stem. red fresh air and fan wit stable suspension and aar cab wall and floor. T eat rails. according to ROPS (!s ng to ISO 6055 (Oper or Restraint System"). ng this machine is equip 4a, Global Warming Pc m ³ /min (yd ³ /min) kW kW bpen hood covering v id filters and compoo pility to monitor, log at I (gal) I (gal) I (gal) I (gal)	th auto and 11 speeds, retractable seatbelt, he forces from the SO 3471), FOPS ator overhead protection oped with air conditionin tential 1.430 t CO2-eq 9 (11. 7 vhole engine nent breather air filter and analyze data to 731 (19 80 (21 55 (14. 226 (59) 48 (12.
Instrumentation: All important information vision. Display for Contronic monitoring sy Heater and defroster: Heater coil with filte Defroster vents for all window areas. Operator's seat: Operator's seat with adju The seat is mounted on a bracket on the r retractable seatbelt are absorbed by the sy Standard: The cab is tested and approved (ISO 3449). The cab meets with requirements accordi Industrial trucks) and SAE J386 ("Operat Refrigerant of the type R134a is used whe Contains fluorinated greenhouse gas R13 Ventilation Heating capacity Air conditioning Service Refill Service Refill Service Refill Service Refill Service Refill Escrice trubuleshooting. Fuel tank DEF/AdBlue® tank Engine coolant Hydraulic oil tank	stem. red fresh air and fan wil stable suspension and aar cab wall and floor. T eat rails. according to ROPS (! ng to ISO 6055 (Oper or Restraint System"). ng this machine is equig 4a, Global Warming Pc m ³ /min (yd ³ /min) kW kw bypen hood covering v id filters and composi- bility to monitor, log a I (gal) I (gal) I (gal)	th auto and 11 speeds, retractable seatbelt, he forces from the SO 3471), FOPS ator overhead protection oped with air conditionin tential 1.430 t CO2-eq 9 (11. 7 vhole engine nent breather air filter and analyze data to 731 (19 80 (21 55 (14. 226 (59)

Specifications



ONS		
on la	mm	ft in
Overall length to top of blade	9,000	29'6"
Overall length (without blade)	7,135	23'5"
Blade to cl front axle	2,505	8'3"
Wheelbase	3,800	12'6"
CI rear axle to rear bumper	2,345	7'8"
Cl front axle to articulation	1,900	6'3"
Ground clearance at articulation	605	2'0"
Height to bottom of rear bumper	915	3'0"
Height to top of exhaust outlet	3,720	12'3"
Overall height (beacon down)	3,845	12'7"
Overall height (beacon up)	3,990	13'1"
Overall width at wheels	4,010	13'2"
Width over blade	4,570	15'
Width over blade to end bits (semi-u blade)	4,550	14'11"
Width over blade to end bits (straight blade)	4,665	15'0"
	Overall length to top of blade Overall length (without blade) Blade to cl front axle Wheelbase Cl rear axle to rear bumper Cl front axle to articulation Ground clearance at articulation Height to bottom of rear bumper Height to top of exhaust outlet Overall height (beacon down) Overall width at wheels Width over blade Width over blade to end bits (semi-u blade)	mmOverall length to top of blade9,000Overall length (without blade)7,135Blade to cl front axle2,505Wheelbase3,800Cl rear axle to rear bumper2,345Cl front axle to articulation1,900Ground clearance at articulation605Height to bottom of rear bumper915Height to top of exhaust outlet3,720Overall height (beacon down)3,845Overall height (beacon up)3,990Overall width at wheels4,010Width over blade4,550

Maximum Operating Weight (equipped with semi-U blade, 30 Twist Torque cleat and inverted chevron pattern): 40 800 kg (90,000 lb)

Equipment

	S
STANDARD EQUIPMENT Engine	S
Engine D13 Tier 4f US	
Exhaust after treatment system Preheating of induction air	
Fuel fill strainer	
Fuel pre filter with water trap, Fuel Filter Fuel Heater	
Crankcase breather oil trap	
Exhaust heat insulation	
Exterior radiator air intake protection Hand throttle control	B
Engine auto shutdown	
Air precleaner, Turbo II	1
Engine block heater, 120 V	
Radiator , corr prot Max. fan speed, hot climate	c
Reversing Fan	(
Electrical 24 V, pre wired for optional accessories	
Alternator 24 V/ 80 A	- 7
Battery disconnect switch with lock out tag out	
Fuel gauge Hour meter	
Electric horn	
Instrument cluster:	
Fuel level Transmission temperature	
Coolant temperature	
Instrument lighting	- (
Work Lights CAB, LED, Dual front & rear	
Automatic activation of rear work lights when reversing Work lights cab, LED, 4 front, 3 rear	
Work lights engine hood, LED, 2 rear	- (
Warning beacon, flashing strobe light, main switch operated	1
Radio BlueTooth/USB/AUX no CD LH Radio mounting kit including 20 amp converter, speakers & 12v outlet	
Seat belt indicator external green beacon light	
Contronic monitoring system	
Monitoring and logging of machine data Contronic display	
Fuel consumption	1
Ambient temperature	
Clock Test function for warning and indicator lights	
Warning and indicator lights:	
Battery charging	
Parking brake Warning and display message:	
Regeneration	
Engine coolant temperature	
Charge air temperature Engine oil temperature	
Engine oil pressure	H
Transmission oil temperature	
Transmission oil prossure	
Transmission oil pressure Hydraulic oil temperature	1
Hydraulic oil temperature Brake pressure	1
Hydraulic oil temperature Brake pressure Parking brake applied	
Hydraulic oil temperature Brake pressure Parking brake applied Brake charging	
Hydraulic oil temperature Brake pressure Parking brake applied Brake charging Axle oil temperature Steering pressure	
Hydraulic oil temperature Brake pressure Parking brake applied Brake charging Axle oil temperature Steering pressure Crankcase pressure	S
Hydraulic oil temperature Brake pressure Parking brake applied Brake charging Axle oil temperature Steering pressure	
Hydraulic oil temperature Brake pressure Parking brake applied Brake charging Axle oil temperature Steering pressure Crankcase pressure Level warnings: Fuel level Engine oil level	S
Hydraulic oil temperature Brake pressure Parking brake applied Brake charging Axle oil temperature Steering pressure Crankcase pressure Level warnings: Fuel level Engine oil level Engine coolant level	S
Hydraulic oil temperature Brake pressure Parking brake applied Brake charging Axle oil temperature Steering pressure Crankcase pressure Level warnings: Fuel level Engine oil level Engine coolant level Transmission oil level	
Hydraulic oil temperature Brake pressure Parking brake applied Brake charging Axle oil temperature Steering pressure Crankcase pressure Level warnings: Fuel level Engine oil level Engine coolant level Transmission oil level Hydraulic oil level Washer fluid level	S
Hydraulic oil temperature Brake pressure Parking brake applied Brake charging Axle oil temperature Steering pressure Crankcase pressure Level warnings: Fuel level Engine oil level Engine coolant level Transmission oil level Hydraulic oil level Washer fluid level Engine torque reduction in case of malfunction	S
Hydraulic oil temperature Brake pressure Parking brake applied Brake charging Axle oil temperature Steering pressure Crankcase pressure Level warnings: Fuel level Engine oil level Engine coolant level Transmission oil level Hydraulic oil level Washer fluid level Engine torque reduction in case of malfunction indication:	
Hydraulic oil temperature Brake pressure Parking brake applied Brake charging Axle oil temperature Steering pressure Crankcase pressure Level warnings: Fuel level Engine oil level Engine colant level Transmission oil level Hydraulic oil level Washer fluid level Engine torque reduction in case of malfunction indication: High engine colant temperature High engine oil temperature	S
Hydraulic oil temperature Brake pressure Parking brake applied Brake charging Axle oil temperature Steering pressure Crankcase pressure Level warnings: Fuel level Engine oil level Transmission oil level Hydraulic oil level Washer fluid level Engine torque reduction in case of malfunction indication: High engine colant temperature High engine oil temperature	S
Hydraulic oil temperature Brake pressure Parking brake applied Brake charging Axle oil temperature Steering pressure Crankcase pressure Level warnings: Fuel level Engine oil level Engine coolant level Hydraulic oil level Hydraulic oil level Engine torque reduction in case of malfunction indication: High engine colant temperature High engine oil pressure Low engine oil pressure High crankcase pressure	
Hydraulic oil temperature Brake pressure Parking brake applied Brake charging Axle oil temperature Steering pressure Crankcase pressure Level warnings: Fuel level Engine oil level Transmission oil level Hydraulic oil level Washer fluid level Engine torque reduction in case of malfunction indication: High engine colant temperature High engine oil pressure High crankcase pressure	
Hydraulic oil temperature Brake pressure Parking brake applied Brake charging Axle oil temperature Steering pressure Crankcase pressure Level warnings: Fuel level Engine oil level Transmission oil level Hydraulic oil level Washer fluid level Engine torque reduction in case of malfunction indication: High engine colant temperature High engine oil pressure Low engine oil pressure High crankcase pressure High crankcase pressure High crankcase of malfunction indication: High crankcase negature High transmission oil temperature	
Hydraulic oil temperature Brake pressure Parking brake applied Brake charging Axle oil temperature Steering pressure Crankcase pressure Level warnings: Fuel level Engine oil level Transmission oil level Hydraulic oil level Washer fluid level Engine torque reduction in case of malfunction indication: High engine colant temperature High engine oil pressure High crankcase pressure	

Drivetrain
Automatic Power Shift
Automatic Power Shift Fully automatic gearshifting, with lock-up torque converter
Speed limiter (6 mph)
PWM controlled gearshifting
Forward and reverse switch by hydraulic lever console Indicator glass for transmission oil level
Differentials: Front, 100% hydraulic diff lock, limited slip rear axle
Axle oil coolers
Brake system Dual brake circuits
Dual brake pedals
Secondary brake system
Parking brake, electrical hydraulic
Brake wear indicators Cab
ROPS (ISO 3471), FOPS (ISO 3449)
Tiltable Cab
Unive Key US, Remote door open Acoustic inner lining
Ashtray
Cigarette lighter, 24 V power outlet
Lockable door
Cab heating with fresh air inlet and defroster Automatic heat control
Air conditioning w/ corrosion prot. condenser & ACC (auto climate)
control)
Fresh air inlet with two filters
Respa cab air filtration system - for very dusty environments Floor mat
Interior lights
Interior mirror on the left, rear view camera color, LCD monitor on right
Dual exterior rear view mirrors, electrically adjustable, heated Sliding window in door, right side
Tinted safety glass
Adjustable steering wheel
Steering knob Single lever hydraulic control
Comfort Drive Contr, CDC, el-hydr (Joystick Steering)
Operator's seat, Volvo, air suspended, HD for CDC
Retractable seat belt (SAE J386)
Storage compartment Document pocket
Sun visor
Sun blinds front and rear window
Beverage holder Lunch box holder
Anchorage manual
Back up alarm
Windshield washer front and rear Interval function for front and rear wipers
Decals, English/Spanish
Hydraulic system
Main valve, double acting single spool
Variable displacement axial piston pump for: Working hydraulics, steering, brake system, and cooling fan
Electro-hydraulic servo control
Electric lever lock
Double acting hydraulic cylinders Indicator glass for hydraulic oil level
Hydraulic oil cooler
Service and maintenance
Engine oil remote drain and fill
Lubrication manifolds, ground accessible Pressure check connections: transmission and hydraulic, guick connects
Tool box, lockable
Oil sampling ports
Cleaner kit, Air blow gun CareTrack 6 yr subscription
CareTrack, 3G + GSM/Satellite capable
Jump start connector, NATO-Type
External equipment
External equipment Fire supression system
External equipment
External equipment Fire supression system Viscous cab mounts Rubber engine and transmission mounts Easy to open engine hood
External equipment Fire supression system Viscous cab mounts Rubber engine and transmission mounts Easy to open engine hood Frame, joint lock
External equipment Fire supression system Viscous cab mounts Rubber engine and transmission mounts Easy to open engine hood

STANDARD EQUIPMENT

- Special Applications Solutions (SAS) Supplied Standard Specifications SAS supplied speciality built rear bumber, fender and steps left and right SAS supplied striker bars 4 front 4 rear
- SAS supplied radiator guard SAS supplied windshield guard
- SAS supplied guarding engine, transmission, center hinge, under cab,
- front frame, front and rear axle, front and rear differential
- SAS supplied front and rear axle seal guards
- SAS supplied hand railings, grab rails
- SAS Supplied bull dozer arrangement
- SAS Terra supplied wheels with rolling wire guard

SELECTION OF VOLVO OPTIONAL EQUIPMENT

Terra Twist Torque cleats



With extended puncture points, the right and left handed cleats create a twisting action which punctures and tightens the waste at the wrapper surface, resulting in superior compaction and stability.

Pictured with inverted chevron pattern

Cleats are equally spaced across the wheel wrapper allowing for consistent compaction. Recommended for Municipal Solid Waste (MSW) and Construction and Debris (C&D) sites.

OPTIONAL EQUIPMENT Delete Fire supression system Premium Deluxe ISRI Seat SAS Terra supplied blade Straight blade Semi u-blade SAS Terra supplied cleat pattern Inverted or standard chevron patern

- SAS Terra supplied cleats 8.5" HDT or twist torgue or combination

Terra High-Density Traction cleats

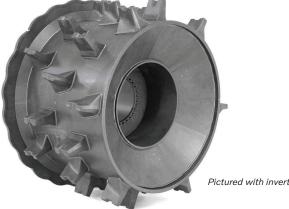


With a wide top cutting surface, the blunt design provides excellent penetration, crushing and shredding of materials for maximum compaction.

Pictured with standard chevron pattern

Design allows more wrapper space between rows of cleats for superior

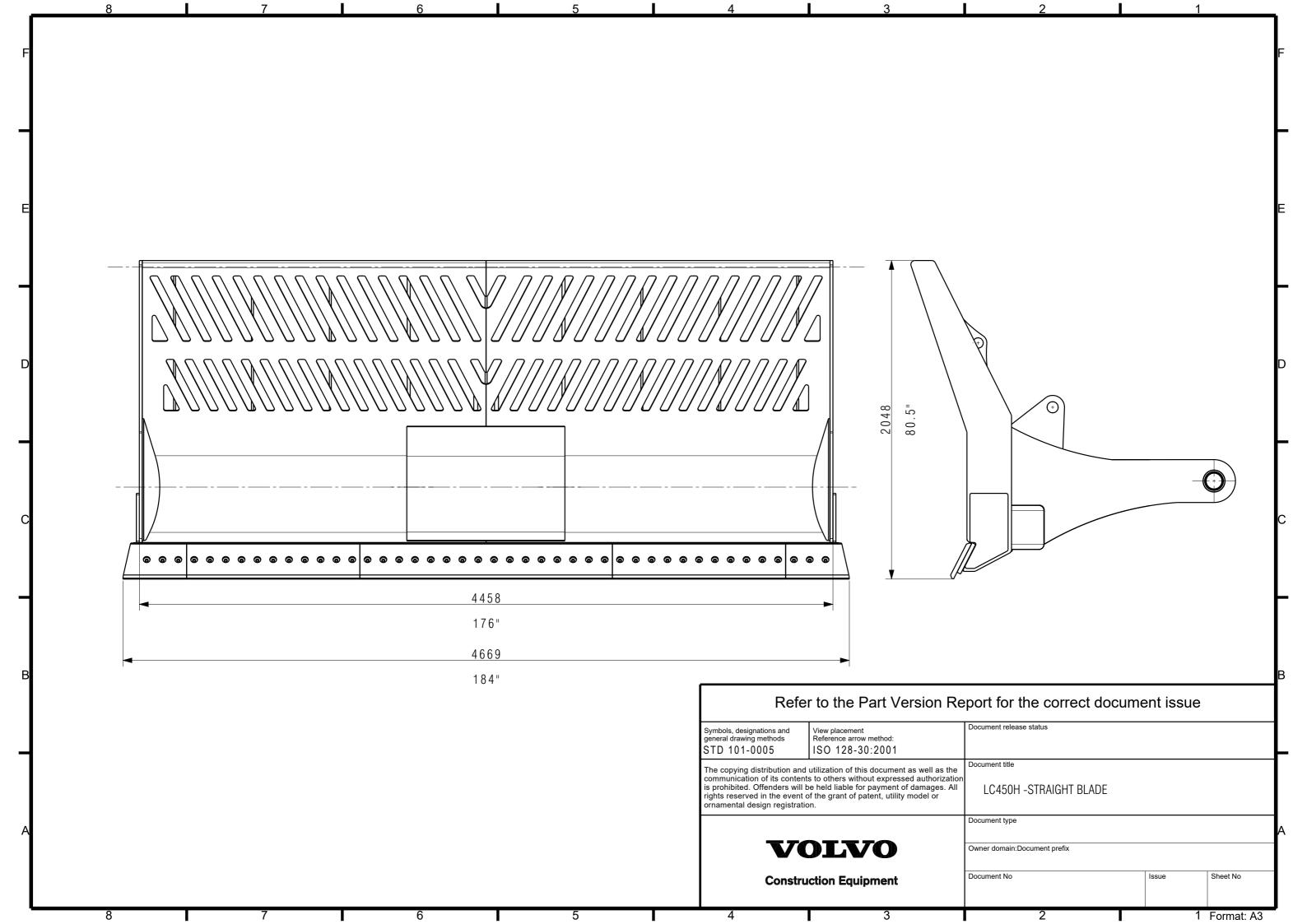
Suitable for MSW, sludge, clay or sticky adhesive type materials. Recommended for C&D sites.



Terra Twist Torque and High-Density Traction combo

Pictured with inverted chevron pattern

Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.



LC450H Order List

Description	Article
Volvo LC450H Landfill Compactor	LC450H
Customer supplied tires	LCX90006
Max. fan speed, hot climate	LC30002
Fuel fill strainer	LC30007
Hand throttle control	LC30009
Engine auto shutdown	LC30011
Delayed Engine Shutdown	LC30024
Air pre-cleaner, turbo type	LC31001
Engine D13 Tier 4f US	LC32013
Engine block heater, 120 V USA	LC33002
Diff lock Fr 100%, lim slip Re	LC35001
Speed limiter, 20 km/h	LC38001
Premium Comfort ISRI operators seat	LC41017
ACC, corr prot. condenser	LC42002
Radio with BlueTooth/USB/AUX	LC43004
Radio kit , left-side	LC44002
Steering wheel knob	LC45001
Window, sliding, door	LC45003
ACC control panel, F-scale	LC45004
Sun blinds, rear windows	LC45007
Cab air pre-clean, cyclone	LC45012
Rear view camera incl. Monitor	LC45016
Lunch box holder	LC45023
Comfort Drive Control, CDC	LC45024
Anchorage manual	LC45027
Unive Key US, Remote door open	LC45032
Coin tray	LC45037
Rearview mirrors,el.adj& heat.	LC45201
	LC50014
Work Lights CAB, 4 LED	
CAB Side & entrance light LED	LC50015
LED Work lights fr/re f LED	LC50021
Warning Beacon LED, Automatic	LC51004
Jump start connector,NATO-Type	LC53008
LOTO, Lock out tag out	LC53009
Reverse alarm, White Noise	LC54002
Oil sampling valve	LC71002
Cleaner kit, Air blow gun	LC71010
Decals, Eng/Spa ,el-hydr	LC83004
Refl stickers Machine contour	LC83007
Cover plate, HD, front frame	LC86011
Fire supression system	LC86029
Emergency Shutdown	LC86035
CareTrack Subscription	LC88010
CareTrack +SAT, North America	LC88018
Deactivate SAT software	LC88020
SAS Terra supplied std. chevron cleat pattern 28 per wheel (replaces inverted chevron clean pattern)	Recommended Std
SAS Terra supplied 8.5" twist torque cleats with hardfacing on tips	Recommended Std
SAS Terra Supplied Semi U-Blade with wear plates on pusher arms and replacable bolt on edge	Recommended Std

VOLVO

Volvo Construction Equipment North America Warranty – Disclaimers – Limitations Limited Warranty for Governmental / Municipalities

Volvo Construction Equipment North America ("Volvo CE") hereby extends to its authorized dealers ("Dealer") and the Dealer's Governmental / Municipalities customers ("Customer", and both Dealer and Customer are referred to herein as a "Buyer"), who purchase a new Volvo construction equipment machine ("Machine") or new Volvo part ("Part", both of which are referred to herein as a "Product") from Volvo, the following limited warranty:

Subject to the exceptions and limitations set forth below, Volvo CE or Dealer will repair or replace any part of a new Machine or new Part which proves to be defective in material or workmanship during the following periods (the "Warranty Period"):

Volvo wheel loaders: 12 months/2500 hours, whichever first occurs Volvo articulated haulers: 12 months/2500 hours, whichever first occurs Volvo hydraulic excavators: 12 months/2500 hours, whichever first occurs Volvo motor graders: 12 months/2500 hours, whichever first occurs Volvo compactors: 12 months/1500 hours, whichever first occurs 24 months unlimited hours on DD90 and larger compactors

Volvo pavers: 12 months/1500 hours, whichever first occurs 24 months unlimited hours on 6000 / 7000 series pavers
Volvo milling: 12 months/1500 hours, whichever first occurs
Volvo compact wheel loaders (up to 100 net hp.): 12 months/unlimited hours
Volvo skid steer loaders: 12 months/unlimited hours; Lifetime arm for one-sided
Volvo compact hydraulic excavators (less than 11 metric tons): 12 months/unlimited hours
Volvo backhoe loaders: 12 months/unlimited hours
Volvo engines: 12 months/2500 hours, whichever first occurs
Volvo parts: 6 months/1500 hours, whichever first occurs
Volvo remanufactured components: 12 months/2500 hours, whichever first occurs
Volvo Attachments: 12 months

The Warranty Period commences immediately following the delivery of said Product to the Buyer who first puts said Product into use. The foregoing limited warranty shall include the labor cost to accomplish the repair or replacement of the defective part provided that the repair or replacement was performed by a Dealer.

The foregoing warranty does not cover: (i) any Product found to have been damaged by abuse, accident, other casualty or a failure to maintain or use the warranted Product in accordance with the applicable manuals or instructions (Buyer is required to use only original equipment manufacturer filters during the Warranty Period); (ii) the labor costs to repair or replace defective Parts after the expiration of the Warranty Period of the Machine in which such Part is located; (iii) overtime labor premiums; (iv) costs and expenses associated with the transportation of Dealer's service personnel to and from the location of the warranted Product; (v) any parts, components, attachments or accessories for which Buyer receives a separate warranty by the manufacturer or producer thereof (in specified cases said warranty may be administered by Volvo CE); (vi) maintenance items or ground engaging parts that have achieved their normal service life.

DISCLAIMER OF IMPLIED WARRANTIES AND LIMITATION OF REMEDIES

THE FOREGOING WARRANTY TO BUYER IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND THERE IS NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

REMEDIES AVAILABLE TO BUYER ARE LIMITED TO MAKING A CLAIM UNDER THE FOREGOING WARRANTY AND ARE EXCLUSIVE AND EXPRESSLY LIMITED TO OBTAINING THE PARTS AND LABOR IN ACCORDANCE WITH THE TERMS OF SAID WARRANTY.

21D1001547-NA

REV. 03/2013

<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text><text>