

Item # 24

Volvo LC450H Landfill Compactor

### **Vendor Contact Information:**

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### Model: Volvo LC450H Landfill Compactor

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|---|----------|
| 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  |
| Comfort Drive Control, CDC  | LC45024  |
| Unive Key US, Remote door open  | LC45032  |
| Rearview mirrors,el.adj& heat.  | LC45201  |
| Work Lights CAB, 4 LED  | LC50014  |
| 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  |
| Refl stickers Machine contour   | LC83007  |
| Cover plate, HD, front frame  | LC86011  |
| Fire supression system  | LC86029  |
| Emergency Shutdown  | LC86035  |
| CareTrack Subscription  | LC88010  |
| SAS Terra Supplied Semi U-Blade with wear plates on pusher arms and replacable bolt on edge | LC00000  |
| SAS Terra Wheels  | LC00001  |
| SAS Terra supplied 8.5" twist torque cleats with hardfacing on tips                         | LC00002  |
| SAS Terra supplied inverted chevron - 30 cleats per wheel (cleat pattern)                   |          |

# LC450H

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

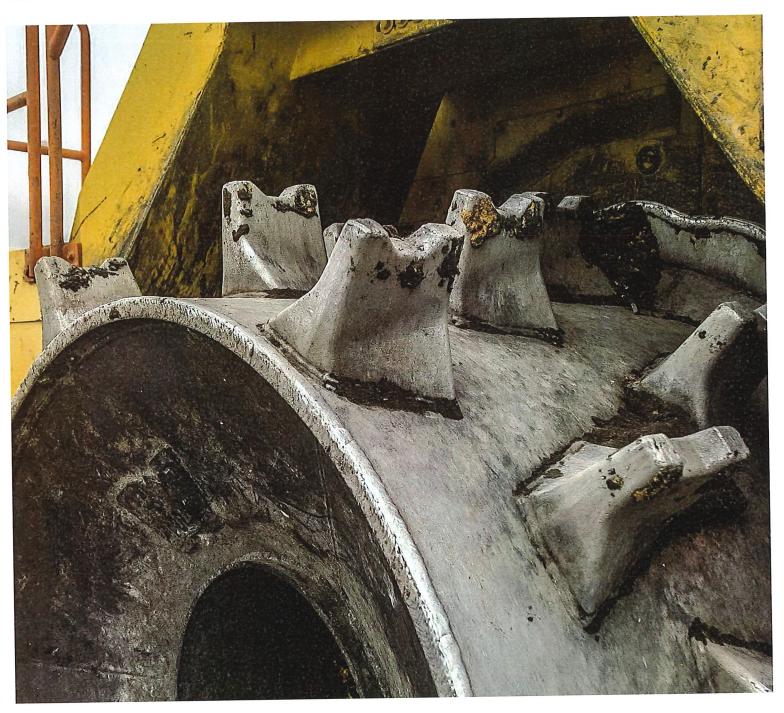


# PURPOSE-BUILT FOR WASTE



Introducing the LC450H, the first purpose-built landfill compactor from Volvo. Built on decades of experience in providing solutions to the waste and recycling industry, we have combined our expertise to work in partnership with Terra Compactor Wheel Corp., a leading manufacturer of landfill compaction wheels, cleats, rolling wire guards, and machine parts.

Through our range of products and services, including articulated haulers, wheel loaders, excavators and attachments, we have long been committed to producing machines which are up to the challenges of waste applications. In the LC450H we have created a landfill compactor designed to deliver outstanding performance and maximum uptime in the toughest environments.



"Over the years, our waste and recycling customers have said they'd like us to bring the reliability and productivity that our machines are known for to a purposebuilt landfill compactor. Landfill conditions are typically rugged and demanding on machines.

We designed the LC450H to withstand the rigors of this type of work, fitting it with durable wear parts, heavy-duty guarding and an efficient powertrain."

Mark DeBrosse, Product Manager at Volvo Construction Equipment.

### Unrivalled performance

With a powerful engine that works in harmony with the axles and the transmission, the LC450H delivers an unrivalled level of performance. With superior traction, high ground clearance and a choice of blade, the specialized landfill compactor is the perfect partner in waste applications.

### Power up, fuel down

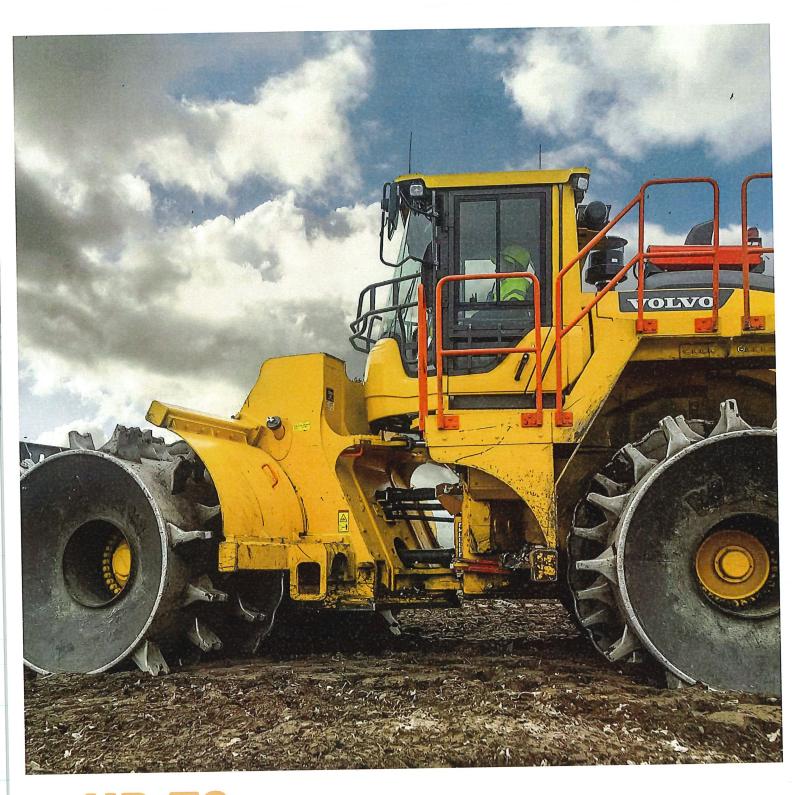
The 90,000lb LC450H is powered by a 416 horsepower Volvo D13J Tier 4 Final engine, featuring passive and automatic regeneration. The engine and axles work in perfect harmony with the HTL310 transmission with lock-up converter, delivering high torque output and excellent fuel efficiency.



### Choice of blade

The LC450H can be equipped with a Terra semi-U or straight blade, allowing operators to select the option which best fits their needs.





## UP TO THE CHALLENGE

The LC450H makes easy work of difficult conditions. A 100% dog clutch differential lock in the front, and limited slip at the rear, contribute towards outstanding machine traction. With a 24 inch ground clearance, the LC450H can easily travel across high obstacles.



# KEEPING YOU SAFE

Operators can feel safe thanks to the ROPS/FOPS protected cab and windshield guard, and breathe easy thanks to the RESPA cab filtration system, including a powered pre-cleaner, filter and pressurizer in one unit.

### The operator's choice

When an operator enters the LC450H, they are stepping inside the industry-leading Volvo cab, boasting a range of features to keep operators safe, comfortable and working at their best.

### Comfortably productive

To reduce fatigue and improve productivity, Comfort Drive Control lets operators steer the machine from a small lever. The machine's single lever blade control, with integrated forward/neutral/reverse, gives the operator the choice to control the transmission with their left or right hand.



### All-around visibility

The LC450H is equipped with a range of features to give the, operator a clear and unobstructed view of the worksite. A rearview camera, electronically adjusted heated external rear-view mirrors, and LED work lights to the front, rear and side, all contribute towards excellent visibility.



### Easy cab access

Climb into the LC450H with ease, with high-visibility steps and handrails supporting convenient entry and egress to the machine.



### Durable by design

When working in tough environments you need a machine that is up to the challenge. Built to last, with a durable design and extensive protection to the machine and engine, you can count on the LC450H to succeed in waste applications.

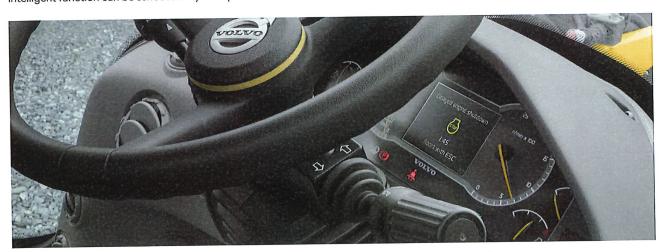
### Keep on rolling

For durability you can depend on, the LC450H is supplied with wheels from Terra Compactor Wheel Corp. as standard. The wheels are equipped with a weld-on rolling wire guard, designed to prevent wire from wrapping around the axles and damaging the seals. A 1.25 inch-thick wheel wrapper with horizontal and vertical hardfacing on the edges provides further machine strength and protection. The wheels feature 8.5 inch-tall cleats with hardfacing on the tips, with the option of two-cleat patterns and three-cleat configurations.



### **Engine protection**

Reduce engine wear with the air pre-cleaner, engine intake and delayed engine shutdown. The new delayed engine shutdown helps to reduce component wear by turning off the machine once the turbo-charger has cooled down to the appropriate temperature. This intelligent function can be scheduled by the operator to activate automatically.





## HEAVY-DUTY GUARDING

Maximize performance and minimize machine wear with extensive protection throughout the LC450H, including radiator grill guard, center pin guard, swing down belly pans, front and rear differential guards, and axle seal guards. Two striker bars cover both the front and rear wheels to keep potentially damaging material away from the machine.

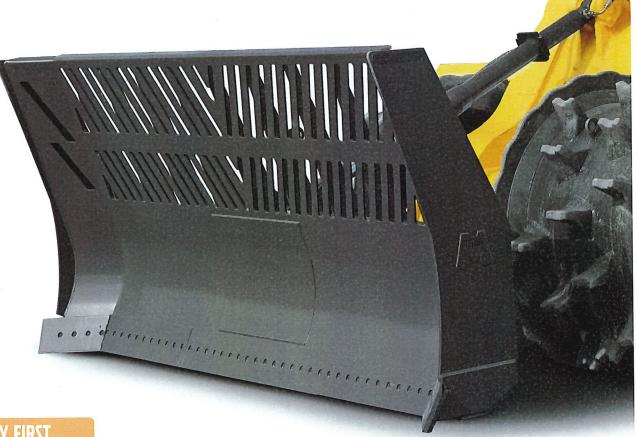
### Take on the tough stuff

### **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**

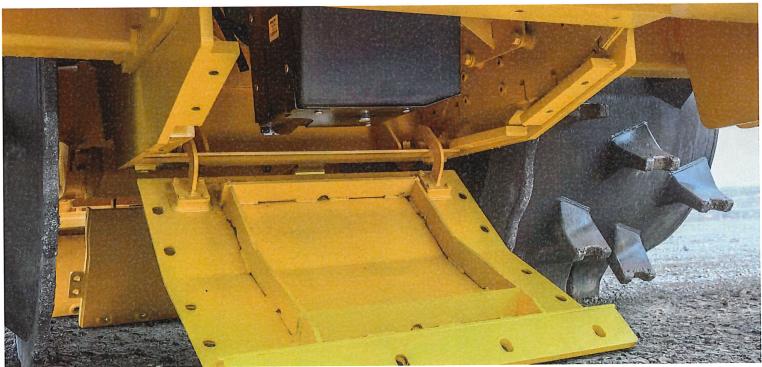
- · Easy cab access
- · Comfort Drive Control: lever steering
- Electronically adjusted/heated external rear view mirrors
- · Single lever blade control



### 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
- · 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.

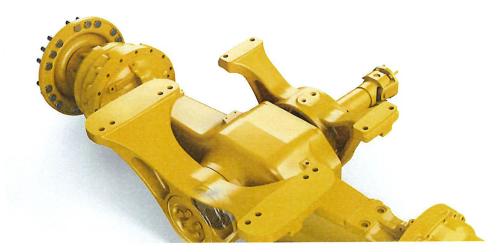
### **Unrestricted access**

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.



### Maintenance-free components

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

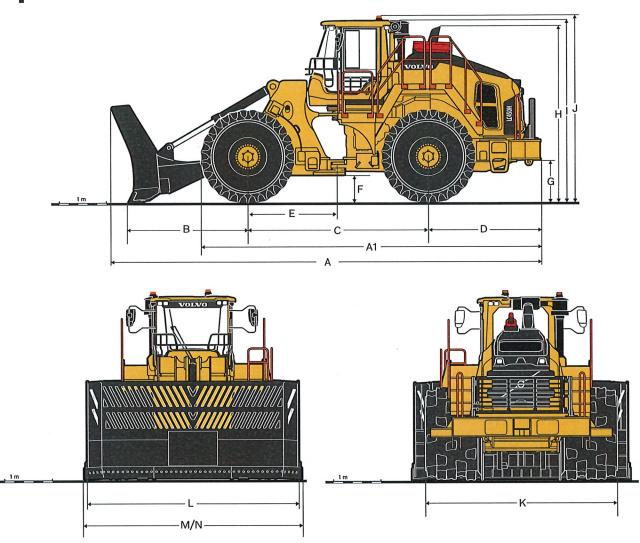


### Volvo LC450H in detail

|   | Engir          | 1e                 |                               |                       |                   |             |                |             |                    |                                   |               |                    |                        |                      |      |
|---|----------------|--------------------|-------------------------------|-----------------------|-------------------|-------------|----------------|-------------|--------------------|-----------------------------------|---------------|--------------------|------------------------|----------------------|------|
|   | V-AC           | CT Sta             | ige IV/T                      | ier 4F 13             | 3 liter,          | 6-0         | ylinde         | rst         | raight             | turbo                             | och           | arged              | diesel en              | gine,                |      |
|   | iniec          | 4 van              | <i>l</i> es per c<br>The engi | ne has v              | overni<br>vet rej | ead<br>olac | eable          | cyli        | nder l             | iners                             | and           | d repla            | ontrolled<br>ceable va | lve                  |      |
|   | guid           | es and             | d valve s                     | eats.                 |                   |             |                | -4-1        |                    |                                   |               | Abrobbi            | e pedal d              | w tha                |      |
|   | hanc           | throtti<br>I throt | le applic<br>tle.             | ations is             | trans             | mit         | ted el         | ectri       | cally              | irom 1                            | tne           | throtti            | e pedal d              | or the               |      |
|   | Air C          | Cleanir            | na: 2 sta                     | ges.                  |                   |             |                |             |                    |                                   |               |                    |                        | 644-                 |      |
|   |                | ling sy<br>o-air t |                               | ydrosta               | tic, ele          | ctre        | onicali        | y cc        | ntroll             | ed tai                            | n ar          | na inte            | rcooler o              | rtne                 |      |
|   | Engi           |                    | , pci                         |                       |                   |             |                |             |                    | Volvo                             |               |                    |                        | D13J                 | *    |
|   |                | , pow              |                               |                       |                   |             |                |             |                    | (r/s)                             |               |                    |                        | 0 (25)<br>(416)      | •    |
| k |                |                    | 5 gross<br>, SAE J            | 1349 ne               | et                | 33.0        |                | 76.19       |                    | √(hp)<br>√(hp)                    |               |                    |                        | (414)                |      |
| N |                | . torq             |                               |                       |                   |             |                |             | r/mir              | n (r/s)                           |               |                    | 1,100                  | (18.3)               |      |
|   | SAE            | J199               | 5 gross                       | 10.10                 |                   |             |                |             |                    | ft lbf)                           |               |                    | 2,343 (                |                      |      |
|   |                | lacen              | , SAE J                       | 1349 ne               | ετ                | 95          |                | 1000        |                    | ft Ibf)<br>I (in³)                |               |                    | 2,328<br>12,8          | (782)                |      |
|   |                | wer                | CHE                           |                       |                   |             |                |             |                    |                                   |               |                    | Tor                    |                      |      |
|   | hp             | kW                 |                               |                       | Power             | and         | Torqu          | e Cı        | ırves              |                                   |               |                    | Nm                     | lbf ft               |      |
|   | 450 -          | 320 -              | 4500                          | BONE S                |                   |             | 66200          |             |                    |                                   |               |                    | 2,400                  | 1,800                | 7    |
|   | 425 -<br>400 - | 300 -              |                               |                       |                   |             | ••••••         | 1           | •••••              |                                   |               |                    | -2,200                 | - 1,600              | 1    |
|   | 375 -          | 280-               | /                             |                       |                   | 1           | 1              |             |                    |                                   | -             |                    | -2,000                 |                      |      |
|   | 350 -          | 260 -              |                               | /                     |                   | 1           |                | +           |                    | 5 30                              | 1             | No.                | - 1,800                | 1,400                |      |
|   | 325 -          | 240 -              | E B                           | /                     | 100000            |             |                |             |                    | 1                                 |               |                    | - 1,600                | 1,200                |      |
|   | 300 -<br>275 - | 200 -              |                               |                       |                   |             | 4              |             | Will S             | ,                                 |               |                    | - 1,400                | 1,000                |      |
|   | 250 -          | 180 -              |                               |                       |                   |             |                |             |                    |                                   | V             |                    | - 1,200                | - 800                |      |
|   | 225 -          | 160 -              |                               |                       |                   |             |                |             |                    |                                   |               | ower<br>orque      | - 1,000                | 800                  |      |
|   | 200 -          | 140 -              |                               |                       |                   | +           |                | -           |                    | _                                 |               |                    | •                      | L 600                |      |
|   |                | 8                  | 00 1,0                        | 00 1,2                | 00 1              | ,40         | 0 1,6          | 00          | 1,8                | 00 2                              | 2,00          | 00 1               | r/min<br>—             |                      |      |
|   |                |                    | 15                            | 2                     | 20                |             | 25             |             | 3                  | 0                                 |               | 35 1               | /sec                   |                      |      |
|   | Elec           | trical             | System                        | 1                     |                   |             |                |             |                    |                                   |               |                    |                        |                      |      |
|   | Cen            | tral w             | arning s                      | ystem: (              | Contro            | nic         | electr         | ical        | syste              | m wit                             | th c          | entral             | warning                |                      |      |
|   | light          | t and I            | ouzzer to                     | Over sr               | ring tu           | ncti        | ions: -        | Ser         | rious (<br>e - Int | engini<br>terrup                  | e ta<br>otior | uit - Lo           | ow steeri<br>mmunica   | ng<br>ation          |      |
|   | (cor           | npute              | r fault)                      |                       |                   |             |                |             |                    |                                   |               |                    |                        |                      | 3    |
|   | Cen            | tral w             | arning li                     | ght and               | buzze             | r W         | ith the        | ge          | ar eng             | gaged                             | tor           | the to             | e - High               | charge               |      |
|   | air t          | emne               | rature -                      | ow coo                | lant le           | vel         | - High         | CO          | olant              | temp                              | era           | ture - I           | High crar              | ik case              |      |
|   | pres           | ssure -            | - Low tra                     | ansmissi              | on oil            | pre         | ssure          | - Hi        | gh tra             | insmi                             | ssic          | on oil t           | emperati               | ıre -                |      |
|   | hvd            | raulic             | oil level                     | - High h              | ydraul            | ic c        | il tem         | pera        | ature              | - Ove                             | rsp           | eeding             | rging - L<br>in Enga   | ged                  |      |
|   | gea            | r - Hig            | h brake                       | cooling               | oil ter           | npe         | rature         | fro         | nt and             | d rear                            | axl           | es.                | SERVE.                 |                      |      |
| * |                | age<br>teries      |                               |                       |                   |             |                | 1000        | 253                | 1                                 | /             | 35,43              |                        | 24<br>2 x 12         |      |
|   |                |                    | apacity                       |                       |                   |             | -              |             |                    | Ał                                | h             |                    | :                      | 2 x 170              |      |
|   |                |                    | king ca                       | pacity, a             | pprox             | 13          |                |             |                    |                                   | 4             |                    | 0.0                    | 1000                 |      |
|   |                |                    | r rating<br>otor out          | nut                   | 2000              |             |                | Sec.        | 2000               | W/A                               |               |                    | 2,2                    | 80/80<br>7           | 8    |
|   | Hyd            | raulic             | Systen                        | n                     |                   |             |                |             |                    |                                   |               |                    |                        |                      | -    |
|   |                |                    |                               |                       |                   |             |                | l pis       | ton p              | nd dur                            | vith          | variabl            | e displace             | ement.               |      |
|   | Valv           | steerii            | ng syster<br>uble-acti        | m always<br>na sinale | s nas p           | non<br>vah  | ty.<br>/e conf | rolle       | ed by a            | sinal                             | le si         | lia looc           | ot valve.              |                      |      |
|   | Filte          | er: Full           | flow filtr                    | ation thro            | ough 1            | 0 m         | icron          | abs         | olute)             | filter o                          | cart          | ridge.             | 10 G                   |                      | Ι,   |
|   |                |                    | Syster                        |                       | ac thro           | 10 P        | ocitio         | ncı         | raica              | hold                              | and           | d lowe             | r positio              | 1                    | 4    |
|   |                |                    | der doub                      |                       |                   | e p         | ositio         | 115,        | raise              | IIOIU                             | aric          | JIOWE              | position               | " 1                  |      |
|   |                |                    | bore dia                      |                       |                   |             |                |             | m                  | ım (in                            | 1)            |                    | 12                     | 0 (4.7)              |      |
|   |                |                    | d diame                       | ter                   |                   | 020         |                | Printer Co. |                    | ım (in<br>ım (in                  |               |                    |                        | 30 (3.1)             |      |
|   |                | oke                | pressur                       | e maxim               | um fo             | r           |                |             | II                 | ım (uı                            | 1)            | No. of Concession, | 100                    | 5 (41.9)             | li . |
|   | pur            | np for             | steering                      | g-, brake             | e-, pilo          | t- a        | and            |             | MP                 | a (psi                            | i)            | 22,5               | ± 0,4 (3,26            | 65±60)               | )    |
|   |                |                    | hydrauli                      | c systen              | n                 | 970         |                | 1/m         | in las             | ıl/min                            |               |                    | 202                    | (53.4)               | V    |
|   | Flo            | W                  |                               |                       | ECLE              |             |                | 1/111       |                    | a (psi                            |               |                    |                        | (1,450)              |      |
|   |                | ine s              | peed                          |                       |                   |             |                |             |                    | in (r/s                           |               |                    |                        | (31.6)               |      |
|   |                |                    | nes fron                      | n groun               | d leve            | 1           |                |             |                    |                                   |               |                    |                        | •                    | 71   |
|   | Lift           |                    |                               |                       |                   |             |                |             |                    |                                   | S             |                    |                        | 3                    |      |
|   |                |                    | le time                       |                       |                   |             |                | 1949        |                    | Name and Post Of the Owner, where | S             |                    | 1                      |                      | 5    |
|   | Blac           | de Ca              | pacity                        |                       |                   |             |                |             |                    | - / 1-                            |               |                    | 10                     | . (01.0)             |      |
| 4 | Ser            | mi-U               |                               |                       |                   |             |                |             |                    | 3 (yd3<br>3 (yd3                  |               |                    |                        | 3 (21.3)<br>9 (19.5) |      |
|   |                | aight<br>de W      | eights                        |                       |                   |             |                |             | m                  | , tyue                            | ,             |                    | 14,                    | - 11J.J              | _    |
|   | Sei            | mi-U               |                               |                       | 199               |             |                |             |                    | kg (lk                            |               |                    | 3,350                  |                      |      |
|   |                | aight              | Court                         |                       |                   | _           |                |             |                    | kg (It                            | 0)            |                    | 3,340                  | (7,360               | L    |
|   | Ste            | ering              | System:                       | I nad-se              | ensing            | . hv        | drost          | atic        | artic              | lated                             | ste           | erina.             |                        | Silver.              |      |
|   | Ste            | eering             | cylinder                      | s: Two                | double            | -ac         | ting c         | yline       | lers.              |                                   |               | gi                 |                        |                      |      |
|   |                | linder             |                               |                       |                   |             |                |             |                    | nm (ir                            |               | E STEEL SEE        |                        | 0 (3.5               |      |
|   |                | d diar             | neter                         |                       |                   |             |                | 1           |                    | nm (ir<br>nm (ir                  |               | 100000             |                        | 50 (2.4<br>5 (20.7   |      |
|   |                |                    | pressur                       | е                     |                   |             |                | 60          |                    | Pa (ps                            |               | 122                |                        | (3770                |      |
|   | Ma             | ximu               | m flow                        |                       |                   |             |                | I/m         |                    | al/mir                            |               |                    |                        | 2 (53.4              | )    |
|   | Ma             | ximu               | m articu                      | lation                | 13.50             | 1           | 100            | 15 16       |                    |                                   | ±             | 171129             |                        | ° 37                 |      |
|   |                |                    |                               |                       |                   |             |                |             |                    |                                   |               |                    |                        |                      |      |

| Pilot system   |                      |  |  |
|--|----------------------|--|--|
| working pressure   | 4                    | MPa (psi)  | 3.2 - 4.0 (465 - 580)  |
| Auxiliary Brake and cooling fan pu   | mp                   |  | Gear   |
|  | -                    | MDa (nai)  | 25.0 ± 0.5 (3,625  |
| Working pressure maximum   |                      | MPa (psi)  | ±75)   |
| Flow   |                      | I/min (gal/min)  | 83 (21.9)<br>10 (1,450)  |
| at<br>engine speed   |                      | MPa (psi)<br>r/min (r/s)   | 1.900 (31.6)   |
| Drivetrain   |                      | 1,11111 (1,12)   | ,  |
| Torque converter: Single-stage.<br>Transmission: Volvo countershaft t<br>and smooth fully automatic shifting<br>(PWM) valve. Torque converter wi   | g of g<br>th loc     | ears 1 - 2 with Pul<br>kup.  | se Width Modulation  |
| Axles: Volvo fully floating axle shaf<br>iron axle housing.<br>Fixed front axle and oscillating real   |                      |  |  |
| with limited slip rear. Axle oil coolin  | ng wit               | th filter.<br>Volvo  | HTL310   |
| Torque multiplication, stall ratio   |                      |  | 2.02:1   |
| Maximum speed, forward/revers  | se                   | 1 11 1 11  | 07100140141  |
| 1st gear   |                      | km/h (mi/h)<br>km/h (mi/h)   | 6.7/6.6 (4.2 / 4.1)<br>9.6/9.6 (6.0 / 6.0)   |
| 2nd gear<br>Front axle/rear axle   | 1000                 | KIII/II (IIII/II)  | AWB 50B / 41   |
| Rear axle oscillation  |                      | ±  | ° 5  |
| Ground clearance   |                      | mm (in)  | 605 (24)   |
| Brake System   |                      |  | 1  |
| Service brake: Volvo dual-circuit sys<br>Outboard-mounted fully hydraulic o<br>disc brakes.  | perate               | ed, fully sealed oil ci  | irculation-cooled wet  |
| Parking brake: Dry disc brake. Appli   | ed by                | spring force, electro  | o-hydraulic release with   |
| a switch on the instrument panel.<br>Secondary brake: Dual brake circuit<br>for the parking brake fulfills all safet<br>Standard: The brake system compli  | y requ               | irements.  |  |
| Number of brake discs per wheel fro<br>Accumulators  | ont/re               | ar 2 - 1 (gal)   | 2 x 1.0 + 1 x 0.5 (2 x   |
|  |                      | I (gal)  | 0.26 + 1 x 0.13<br>1 x 0.5 (1 x 0.13)  |
| Accumulators for parking brake Wheel Dimensions  |                      | i (gai)  | 1 x 0.5 (1 x 0.15)   |
| Drum Diameter (OD)   |                      | mm (in)  | 1562 (61.5)  |
| Drum Width   |                      | mm (in)  | 1207 (47.5)  |
| Overall Diameter 8.5" Cleat  |                      | mm (in)  | 1994 (78.5)  |
| Width over wheels Inverted Chevron Pattern   |                      | mm (ft in)   | 4007 (13' 1.75")   |
| Cleats Per Wheel   |                      |  | 30   |
| Weight Twist Torque Cleats   |                      | kg (lb)  | 3,300 (7,250)  |
| Weight HDT Cleats  |                      | kg (lb)  | 3,235 (7,130)  |
| Weight Combination Twist Torqu<br>(18) & HDT (12) Cleats   | е                    | kg (lb)  | 3,265 (7,200)  |
| Standard Chevron Pattern   |                      |  |  |
| Cleats Per Wheel   |                      |  | 28   |
| Weight Twist Torque Cleats   |                      | kg (lb)  | 3,245 (7,160)  |
| Weight HDT Cleats  |                      | kg (lb)  | 3,200 (7,050)  |
| Weight Combination Twist Torqu<br>(14) & HDT (14) Cleats   | e                    | kg (lb)  | 3,220 (7,100)  |
| Cab  |                      |  |  |
| Instrumentation: All important informativision, Display for Contronic monitorin Heater and defroster: Heater coil with Defroster vents for all window areas.   | ng syst<br>i filtere | em,<br>d fresh air and fan wi  | th auto and 11 speeds.   |
| Operator's seat: Operator's seat with a<br>The seat is mounted on a bracket on t<br>retractable seatbelt are absorbed by the   | the rea              | r cab wall and floor. T<br>t rails.  | The forces from the  |
| Standard: The cab is tested and appro<br>(ISO 3449).<br>The cab meets with requirements acc  | cording              | to ISO 6055 (Oper  |  |
| Industrial trucks) and SAE J386 ("Op<br>Refrigerant of the type R134a is used<br>Contains fluorinated greenhouse gas   | perator<br>when      | Restraint System").<br>this machine is equi  | pped with air conditioning   |
|  |                      | m³/min (yd³/min)   | 9 (11.8  |
| Ventilation  |                      | kW   | 16   |
| Ventilation<br>Heating capacity  |                      |  | 71   |
| Ventilation Heating capacity Air conditioning  |                      | kW   | 7.5  |
| Ventilation Heating capacity Air conditioning Service Refill   | to 00                |  |  |
| Ventilation Heating capacity Air conditioning Service Refill Service accessibility: Large, easy-department, electrically operated promote long service intervals. Pofacilitate troubleshooting.  | l. Fluic             | en hood covering<br>d filters and compo<br>lity to monitor, log  | whole engine<br>ment breather air filters<br>and analyze data to   |
| Ventilation Heating capacity Air conditioning Service Refill Service accessibility: Large, easy-department, electrically operated promote long service intervals. Perfacilitate troubleshooting. Fuel tank   | l. Fluic             | en hood covering<br>I filters and compo<br>lity to monitor, log<br>I (gal)   | whole engine<br>ment breather air filters<br>and analyze data to<br>731 (193   |
| Ventilation Heating capacity Air conditioning Service Refill Service accessibility: Large, easy-department, electrically operated promote long service intervals. Pofacilitate troubleshooting. Fuel tank DEF/AdBlue® tank   | l. Fluic             | en hood covering<br>d filters and compo<br>lity to monitor, log<br>I (gal)   | whole engine<br>onent breather air filters<br>and analyze data to<br>731 (193<br>80 (21.1  |
| Ventilation Heating capacity Air conditioning Service Refill Service accessibility: Large, easy-department, electrically operated promote long service intervals. Polacilitate troubleshooting. Fuel tank  | l. Fluic             | en hood covering<br>I filters and compo<br>lity to monitor, log<br>I (gal)   | whole engine<br>onent breather air filters<br>and analyze data to<br>731 (193<br>80 (21.1<br>55 (14.5                                      |
| Ventilation Heating capacity Air conditioning Service Refill Service accessibility: Large, easy-department, electrically operated promote long service intervals. Pofacilitate troubleshooting. Fuel tank DEF/AdBlue® tank Engine coolant  | l. Fluic             | en hood covering d<br>filters and compo<br>lity to monitor, log<br>I (gal)<br>I (gal)<br>I (gal)<br>I (gal)            | whole engine<br>onent breather air filters<br>and analyze data to<br>731 (193<br>80 (21.1<br>55 (14.5<br>226 (59.7<br>48 (12.7             |
| Ventilation Heating capacity Air conditioning Service Refill Service accessibility: Large, easy-department, electrically operated promote long service intervals, Poracilitate troubleshooting, Fuel tank DEF/AdBlue® tank Engine coolant Hydraulic oil tank Transmission oil Engine oil | l. Fluic             | en hood covering<br>d filters and compo<br>lity to monitor, log<br>I (gal)<br>I (gal)<br>I (gal)<br>I (gal)<br>I (gal) | whole engine<br>onent breather air filters<br>and analyze data to<br>731 (193<br>80 (21.1<br>55 (14.5<br>226 (59.7<br>48 (12.7<br>50 (13.2 |
| Ventilation Heating capacity Air conditioning Service Refill Service accessibility: Large, easy-department, electrically operated promote long service intervals. Perfacilitate troubleshooting. Fuel tank DEF/AdBlue® tank Engine coolant Hydraulic oil tank Transmission oil           | l. Fluic             | en hood covering d<br>filters and compo<br>lity to monitor, log<br>I (gal)<br>I (gal)<br>I (gal)<br>I (gal)            | whole engine<br>onent breather air filters<br>and analyze data to<br>731 (193<br>80 (21.1<br>55 (14.5<br>226 (59.7<br>48 (12.7             |

### **Specifications**



| Description | on  | mm    | ft in  |  |
|-------------|---|-------|--------|--|
| A           | Overall length to top of blade                | 9,000 | 29'6"  |  |
| A1          | Overall length (without blade)                | 7,135 | 23'5"  |  |
| В           | Blade to cl front axle                        | 2,505 | 8'3"   |  |
| С           | Wheelbase                                     | 3,800 | 12'6"  |  |
| D           | CI rear axle to rear bumper                   | 2,345 | 7'8"   |  |
| E           | CI front axle to articulation                 | 1,900 | 6'3"   |  |
| F           | Ground clearance at articulation              | 605   | 2'0"   |  |
| G           | Height to bottom of rear bumper               | 915   | 3'0"   |  |
| Н           | Height to top of exhaust outlet               | 3,720 | 12'3"  |  |
| I           | Overall height (beacon down)                  | 3,845 | 12'7"  |  |
| J           | Overall height (beacon up)                    | 3,990 | 13'1"  |  |
| K           | Overall width at wheels                       | 4,010 | 13'2"  |  |
| L           | Width over blade                              | 4,570 | 15'    |  |
| М           | Width over blade to end bits (semi-u blade)   | 4,550 | 14'11" |  |
| N           | Width over blade to end bits (straight blade) | 4,665 | 15'0"  |  |

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

### **Equipment**

| TANDARD EQUIPMENT   | STANDARD EQUIPMENT  |
|---|---|
| ngine<br>Engine D13 Tier 4f US  | Drivetrain  ★ Automatic Power Shift   |
| Exhaust after treatment system  | Fully automatic gearshifting, with lock-up torque converter   |
| Preheating of induction air   | Speed limiter (6 mph)   |
| Fuel fill strainer  | PWM controlled gearshifting   |
| Fuel pre filter with water trap, Fuel Filter  | Forward and reverse switch by hydraulic lever console   |
| Tuel Heater   | Indicator glass for transmission oll level Differentials: Front, 100% hydraulic diff lock, limited slip rear axle                         |
| Crankcase breather oil trap  Exhaust heat insulation                                      | Axle oil coolers  |
| Exterior radiator air intake protection   | Brake system  |
| Hand throttle control   | Dual brake circuits   |
| Engine auto shutdown  | Dual brake pedals   |
| Air precleaner, Turbo II  | Secondary brake system  |
| Engine block heater, 120 V  | Parking brake, electrical hydraulic   |
| Radiator, corr prot   | Brake wear indicators  Cab  |
| Max. fan speed, hot climate<br>Reversing Fan  | ROPS (ISO 3471), FOPS (ISO 3449)  |
| lectrical   | Tiltable Cab  |
| 24 V, pre wired for optional accessories  | Unive Key US, Remote door open  |
| Alternator 24 V/ 80 A   | Acoustic inner lining   |
| Battery disconnect switch with lock out tag out   | Ashtray   |
| Fuel gauge  | Cigarette lighter, 24 V power outlet  |
| Hour meter  | Lockable door  Cab heating with fresh air inlet and defroster   |
| Electric horn<br>Instrument cluster:  | Automatic heat control  |
| Fuel level  | Air conditioning w/ corrosion prot. condenser & ACC (auto climate   |
| Transmission temperature  | * control)  |
| Coolant temperature   | Fresh air inlet with two filters  |
| Instrument lighting   | Respa cab air filtration system - for very dusty environments   |
| Work Lights CAB, LED, Dual front & rear   | Floor mat   |
| Automatic activation of rear work lights when reversing                                   | Interior lights   |
| Work lights cab, LED, 4 front, 3 rear   | Interior mirror on the left, rear view camera color, LCD monitor on righ Dual exterior rear view mirrors, electrically adjustable, heated |
| Work lights engine hood, LED, 2 rear  | Sliding window in door, right side  |
| Warning beacon, flashing strobe light, main switch operated Radio BlueTooth/USB/AUX no CD | Tinted safety glass   |
| LH Radio mounting kit including 20 amp converter, speakers & 12v outlet                   | Adjustable steering wheel   |
| Seat belt indicator external green beacon light   | Steering knob   |
| Contronic monitoring system   | Single lever hydraulic control  |
| Monitoring and logging of machine data  | Comfort Drive Contr, CDC, el-hydr (Joystick Steering)   |
| Contronic display   | Operator's seat, Volvo, air suspended, HD for CDC   |
| Fuel consumption  | Retractable seat belt (SAE J386)  |
| Ambient temperature<br>Clock  | Storage compartment  Document pocket  |
| Test function for warning and indicator lights  | Sun visor   |
| Warning and Indicator lights:   | Sun blinds front and rear window  |
| Battery charging  | Beverage holder   |
| Parking brake   | Lunch box holder  |
| Warning and display message:  | Anchorage manual  |
| Regeneration  | Back up alarm   |
| Engine coolant temperature  | ★ Windshield washer front and rear ★ Interval function for front and rear wipers  |
| Charge air temperature Engine oil temperature   | Decals, English/Spanish   |
| Engine oil pressure   | Hydraulic system  |
| Transmission oil temperature  | Main valve, double acting single spool  |
| Transmission oil pressure   | Variable displacement axial piston pump for:  |
| Hydraulic oil temperature   | Working hydraulics, steering, brake system, and cooling fan   |
| Brake pressure  | Electro-hydraulic servo control   |
| Parking brake applied   | Electric lever lock   |
| Brake charging  | Double acting hydraulic cylinders   |
| Axle oil temperature  | Indicator glass for hydraulic oil level Hydraulic oil cooler  |
| Steering pressure Crankcase pressure  | Service and maintenance   |
| Level warnings:   | Engine oil remote drain and fill  |
| Fuel level  | Lubrication manifolds, ground accessible  |
| Engine oil level  | Pressure check connections: transmission and hydraulic, quick conne   |
| Engine coolant level  | Tool box, lockable  |
| Transmission oil level  | Oil sampling ports  |
| Hydraulic oil level   | Cleaner kit, Air blow gun   |
| Washer fluid level  | CareTrack 6 yr subscription CareTrack, 3G + GSM/Satellite capable   |
| Engine torque reduction in case of malfunction  | Jump start connector, NATO-Type   |
| Indication: High engine coolant temperature   | External equipment  |
| High engine coolant temperature  High engine oil temperature                              | Fire supression system  |
| Low engine oil pressure   | Viscous cab mounts  |
| High crankcase pressure   | Rubber engine and transmission mounts   |
| High charge air temperature   | Easy to open engine hood  |
| Engine shutdown to idle in case of malfunction indication:                                | Frame, joint lock   |
|   | Vandalism lock prepared for:  |
| High transmission oil temperature   |   |
| High transmission oil temperature Slip in transmission clutches Keypad, background lit    | Engine compartment<br>Radiator grille   |

### 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

### 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

### 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.

### **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

self-cleaning. 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



Volvo Construction Equipment

volvoce.com



Volvo Construction Equipment North America

Warranty — Disclaimers — Limitations

Limited Warranty

Valvo Construction Equipment Menth America ("Valvo CE") horeby extends to its authorized dealers ("Dealer") and the planel's endouce authorized ("Contomer") and sloth Dealer and Constomer ure referred to bettin as a subject to the exceptions and limitations set forth below, 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 naterial or workmanship during the following periods (the "Warranty Feriod"): Tomathor/500 blongs, whichever first occurs

Volvo wheel loaders: 2 tranship/500 blongs, whichever first occurs

Volvo bord that it is excustors: 12 menths/500 blongs, whichever first occurs

Volvo motor garders: 12 menths/500 blongs, whichever first occurs

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Volvo parts: 12 menths/500 blongs, whichever first occurs

Volvo skid areer loaders: 12 menths/500 blongs, whichever first occurs

Volvo parts: 6 menths/500 blongs, whichever first o

Warranty — Disclaimers — Limitations

LIMITATIONS OF LIABILITY AND DAMAGES

Regardless of whether a claim against Volvo CE or Dealer is based on the foregoing warranty or is an action in contract, torif (negligene or arried liability) or otherwise, their respective liability for losses, damages or expenses of any kind staining by lossing, manufacture, repit or sale of the Products is limited, unless otherwise prohibited by lossing, manufacture, repit or sale of the Products or joint liability exceed the value of the Product or part thereof giving rise to such liability.

CONSEQUENTIAL AND SIMILAR DAMAGES NOT RECOVERABLE

Except for performing the obligations of the foregoing warranty, in accordance with its terms. Volvo CE and Dealer shall have no liability for loss, damage, or expense, directly or indirectly, attributable to a loss of use of a Product, lost or damage to preprior of the product or any part thereof or any other economic or commercial loss, including, without limitation, lost profits or special or consequential damages (seeps liability for any type of consequential damages which by law may not be disclaimed). The parties intend that this prohibition against consequential admainst damages will sarvive and be effective even if the limitation of remodies in the foregoing sections is found to fail of its essential purpose under section 2-719 of the Uniform Commercial Code.

\*\*ALLOCATION OF RISK\*\*

The foregoing warranty disclaimers, limitations of liability and limitation of remedies are bargained silocations of risks among (f) the Customer who purchased the Product; (ii) the Dealer who sold the Product, and the Product of the Customer and the Dealer. The Buyer of the Product accepts the foregoing warranty and the other than the foregoing warranty disclaimers, limitations of instead of the Product and the Customer and the Dealer. The Buyer of the Product accepts the foregoing warranty and the other than the foregoing warranty and the contract of the Dealer who sold the Product accepts the foregoing w