

Volvo Articulated Haulers Imperial: 60.6 ton(us) / 121,254 lb / 630 HP Metric: 55 t /55,000 kg / 470 kW

A60H

Volvo Construction Equipment

A60H



Simply the best and the biggest



Service and maintenance

- 250-hour greasing interval
- Half the fluid volume compared to the competition
- 1,000hr engine service intervals
- · Service reminders and fluid level monitoring
- Industry-leading service access and groundaccessible service points



Haul Assist

- On-Board Weighing: real-time payload monitoring
- Tire Pressure Monitoring System
- Map: real-time positioning of on-site traffic
- Productivity Reports, including the geo-tracking of moved material
- Over-the-air updates, easy upgrades, remote support

Only from Volvo

- Proven Volvo engine and matched driveline: high performance, high fuel efficiency
- Automatic drive combinations including 100% differential locks, all-terrain bogie and hydromechanical steering
- Active hydraulic front suspension for high hauling speeds in tough conditions
- The largest articulated hauler on the market, delivering 40% more productivity



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Solutions for you

- Easy machine monitoring: CareTrack, ActiveCare Direct
- Lifetime Frame and Structure Warranty
- 24hr parts delivery guarantee
- Genuine Volvo Parts
- Volvo Site Simulation: get recommendations on the best fleet configuration and site set-up
- Operator Training Program: unlock the full potential of your machine
- Uptime Services: control your maintenance costs

- The operator's choice
- Ease of operation: ergonomic and easy-to-understand controls
- Centrally positioned operator for bestin-class visibility
- Hill assist, dump support system, load and dump brake
- Built-in brake test: schedule and perform a stationary brake test, guided by the machine display



Volvo A60H in detail

Engine

V-ACT, 16 liter, 6-cylinder straight VGT (Variable Geometry Turbocharged) diesel engine with 4 valves per cylinder, overhead camshaft and

electronically controlled unit injectors. It has wet replaceable cylinder liners

and replaceable valve guides and valve seats. The engine has cooled EGR (Exhaust Gas Recirculation) and exhaust

after treatment with EAT-Muffler (Exhaust After treatment) including

DOC (Diesel Oxidation Catalyst), DPF (Diesel Particulate Filter) and SCR (Selective Catalytic Reduction) with an electronically controlled UDS (Urea Dosing System).

After treatment system features passive DPF regeneration with an AHI (After treatment Hydro carbon Injection) device as back up.

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Engine model	Volvo	D16J
Max power - SAE J1995 Gross	kW (hp)	470 (630)
at engine speed	r/min (r/s)	1,800 (30)
Flywheel power - ISO 9249, SAE J1349 Net	kW (hp)	467 (626)
at engine speed	r/min (r/s)	1,800 (30)
Max torque - SAE J1995 Gross	Nm (ft lbf)	2,960 (2,183)
Max torque - ISO 9249, SAE J1349 Net	Nm (ft lbf)	2,942 (2,170)
at engine speed	r/min (r/s)	1,050 (17.5)
Displacement	l (in³)	16.1 (982)

Electrical System

All cables, sockets and pins are identified. Cables are enclosed in plastic conduits and secured to main frame. Halogen lights. Prewired for options. Connectors meet IP67 standard for water-proofing as necessary.

Voltage	V	24
Battery	V	2x12
Battery capacity	Ah	2x225
Alternator	kW/A	2.264/80
Starter motor	kW	9

Drivetrain

Torque converter with built-in lock-up function.

Transmission: Fully automatic Allison planetary transmission with 6 forward gears and 2 reverse gears. Internal torsional damper in the torque converter.

Dropbox: Volvo-developed, in-line design with high ground clearance and 100% longitudinal "dog clutch" type differential lock. Axles: Heavy duty, purpose built Volvo design with fully floating axle shafts, planetary type hub reductions and 100% dog clutch type diff-lock. Automatic traction control system (ATC).

Torque converter		1.85:1
Transmission	Volvo	6630 ORS
Dropbox	Volvo	IL3 ATC
Axles	Volvo	AHW80

Brake system

Fully hydraulic, wet multiple disc brakes with enclosed, forced oil-cooled multiple discs on all wheels. Two circuit brake system. Complies with ISO 3450 at total machine weight.

Circuit division: One circuit for front axle and one for bogie axles. **Parking brake:** Spring-applied disc brake on the propeller shaft, designed to hold a loaded machine on a grade of up to 18%. When the parking brake is applied, the longitudal differential is locked. Retarder: Service brake retarder function and Volvo Engine Brake (VEB).

Steering System

Hydro-mechanical articulated steering, self compensating design. Two double-acting steering cylinders

Steering angle: 3,4 steering wheel turns lock-to-lock, ±45° Steering system, including secondary steering fulfi lls ISO 5010.

Chassis

Frames: box type, heavy duty. High strength steel, robot welded. Rotating hitch: 100% maintenance free, fully sealed, with permanently greased tapered roller bearings.

Cab

Mounted on rubber pads. Ergonomically designed. Easy entry and exit. Wide angle forward view.

Operator centerally positioned above the front axle. Adjustable operators seat with retractable seat belt.

Tilt/telescopic steering wheel. Ergonomically positioned controls. Filtered air. Climate control system.

Operator communication system: Contronics. Large color display, user-friendly and easy-to-understand information, all vital machine functions are constantly monitored.

Instructor seat with seat belt.

Safety: ROPS/FOPS standards approved according to ISO3471, SAE J1040 / ISO3449, SAE J231.

Sound level in cab (ISO 6396) - LpA dB 72 External sound level (ISO 6395) - LWA dB 113

Internal sound level with sound kit: 70 dB(A)

External sound level with sound kit: 111 dB(A).



Hydraulic system								
Pumps: Five variable displacement piston pumps driven by the flywheel PTO. One ground-dependent piston pump for secondary steering mounted on the dropbox. Two return oil fil ters with magnetic cores provide effective oil filtration.								
System max working pressure	MPa (psi)	28 (4,061)						
Dumping System								
Patented Load and Dump Brake. Dumping Cylinders: two single stage double acting cylinders.								
Tipping angle	0	70						
Tipping time with load	s	13						
Lowering time	ering time s							
Body								
Plate thickness								
Front	mm (in)	8 (0.31)						
Sides	mm (in)	14 (0.55)						
Bottom	mm (in)	16 (0.63)						
Chute mm (in) 16								
Material								
Yield strength	N/mm² (psi)	1,000 (145,038)						
Tensile strength	N/mm² (psi)	1,250 (181,297)						

Load Capacity		
Standard Body		
Load capacity	kg (sh tn)	55,000 (60.6)
Body, struck	m³ (yd³)	25.8 (33.7)
Body, heaped 2:1	m³ (yd³)	33.6 (43.9)
With overhung tailgate		
Body, struck	m³ (yd³)	26.5 (34.7)
Body, heaped 2:1	m³ (yd³)	35.1 (45.9)
Suspension		
Front suspension: Unique, full hyd stabilizer. Rear suspension: 100% maintena beam. Independent wheel moveme	nce free. Stradd	le mounted bogie
Hydraulic cylinders (struts), front/r	ear	2/0
Accumulators, oil-nitrogen, high pressure, front		
Levelling sensors		2



Specifications

REFILL CAPACITIES				
Crankcase	I	gal	55	14.5
Fuel tank	I	gal	750	198.1
Cooling system	1	gal	75	19.8
Brake cooling system	I	gal	131	34.6
Transmission	1	gal	58	15.3
Dropbox	I	gal	12	3.2
Axles, front/bogie	1	gal	74/147	19.5/38.8
Hydraulic tank	I	gal	198	52.3
DEF	I	gal	60	15.9

SPEED				
Forward				
1	km/h	mph	7	4
2	km/h	mph	10	6
3	km/h	mph	13	8
4	km/h	mph	19	12
5	km/h	mph	26	16
6	km/h	mph	55	34
Reverse				
1	km/h	mph	5	3
2	km/h	mph	8	5

OPERATING WEIGHT UNLOADED						
Tires 33.25R29						
Front	kg	lb	22,750	50,155		
Rear	kg	lb	21,000	46,297		
Total	kg	lb	43,750	96,452		
Payload	kg	lb	55,000	121,254		

TOTAL WEIGHT				
Tires			33.2	5R29
Front	kg	lb	28,900	63,714
Rear	kg	lb	69,850	153,993
Total	kg	lb	98,750	217,706

Operating weight includes all fluids and operator

GROUND PRES	SSURE			
Tires			33.	25R29
Unloaded				
Front	kPa	psi	125	18.1
Rear	kPa	psi	58	8.4
Loaded				
Front	kPa	psi	159	23.1
Rear	kPa	psi	193	28

DIMENS	SIONS			
Pos	U	nit	A6	0Н
А	mm	ft in	12,225	40'1"
A ₁	mm	ft in	5,872	19'3"
A ₂	mm	ft in	6,900	22'8"
В	mm	ft in	6,310	20'8"
С	mm	ft in	3,852	12'8"
C ₁	mm	ft in	1,772	5'10"
D	mm	ft in	3,293	10'10"
D ₁	mm	ft in	2,986	9'10"
Е	mm	ft in	1,440	4'9"
F	mm	ft in	5,050	16'7"
G	mm	ft in	2,140	7'0"
н	mm	ft in	1,743	5'9"
1	mm	ft in	541	1'9"
J	mm	ft in	3,510	11'6"
К	mm	ft in	2,658	8'9"
L	mm	ft in	1,030	3'5"
Μ	mm	ft in	7,960	26'1"
Ν	mm	ft in	10,014	32'10"
N ₁	mm	ft in	4,761	15'7"
0	mm	ft in	3,989	13'1"

			IONS	DIMENS
рн	A6	nit	Uı	Pos
12'1"	3,673	ft in	mm	Р
11'1"	3,370	ft in	mm	Q
2'3"	677	ft in	mm	R
2'7"	778	ft in	mm	R ₁
10'3"	3,126	ft in	mm	S
12'3"	3,734	ft in	mm	Т
12'7"	3,833	ft in	mm	U
9'11"	3,010	ft in	mm	V
12'9"	3,884	ft in	mm	W
1'12"	601	ft in	mm	Х
2'5"	727	ft in	mm	X1
2'9"	845	ft in	mm	X ₂
9'11"	3,010	ft in	mm	Y
12'9"	3,884	ft in	mm	Z
.9	24	•		a ₁
)	7	0		a2
5	4	0		a ₃
2'9" 9'11" 12'9" 9	845 3,010 3,884 24 7	ft in ft in ft in	mm mm	X ₂ Y Z a ₁ a ₂

A60H: Unloaded machine with 33.25R29 tires.

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Equipment

STANDARD EQUIPMENT	STANDARD EQUIPMENT
Engine	Comfort
Direct injected, electronically controlled, turbocharged, intercooled	ACC control panel
Grouped oil filters	Ashtray
Preheater for easier cold starts	Cab heater with filtered fresh air and defroster
VEB (exhaust retarder EPG + compression brake)	Can holder /storage tray
Wheels and tires	Instructor seat with seat belt
33.25R29	Overhead console for radio
800/80R29	Sliding window
Drivetrain	Space for lunch cooler
6x4 and 6x6 automatically engaged drive modes	Storage box
Dog clutch type 100% diff-locks in all axles	Sun visor
Full automatic transmission	Tilt/telescopic steering wheel
Two-stage dropbox with longitudinal diff-lock	Tinted glass
Torque converter with automatic lock-up	Operator information interface
Electrical System	Gauges:
80 A alternator	Brake pressure
Battery disconnect switch	Fuel
Extra 24 V socket for lunch cooler	Speedometer
Lights:	Tachometer
Back-up light	Wet disc brakes cooling oil temperature
Brake lights	Warning lights grouped and easy to read
Cab lighting	Central warning (3 levels) for all vital functions
Direction indicators	Central positioned information display
Headlights	Automatic pre-start checks
Instrument lighting	Clock
Parking lights	Hour meter
Rear lights	Operational information, easy-to-navigate menu
Brake system	Troubleshooting diagnostics
Hill assist	Exterior
Load & Dump Brake	Front mudguard wideners and rear mudflups
Retarder pedal	Service and maintenance
Parking brake on propeller shaft	Electrical engine hood and belly plate
Two circuit, fully hydraulic, wet discs on all axles	Drainage hose
Body	Machine Tracking Information System MATRIS
Body prepared for exhaust heating and optional equipment	Service platform integrated in the front grill
On board weighing (OBW)	Tool box
Safety and security	
Anti-slip steps and platforms	
Dump body lock	
Handrails on steps and platforms	
Hazard lights	
Horn	
Protective grill for cab rear window	
Rear-view mirrors	
Detrestable 2 inch sefet helt	

Retractable 3-inch safety belt

ROPS/ FOPS - certified cab Secondary steering

Steering joint lock

Windshield washers

Windshield wipers with interval function

Dump support system

OPTIONAL EQUIPMENT	OPTIONAL EQUIPMENT
Engine	Body
Air filter, heavy duty, EON	Body exhaust heating
Engine heater, 240 V	Front spillguard, extra
Engine heater, diesel (Eberspächer)	Side extension, light material
Engine auto shutdown	Tailgate, overhung, wire-operated
Engine shutdown timer	Wear plates
External emergency engine stop	Safety and security
High engine idle speed	Fire suppression system
Electrical System	Warning triangle
Headlights, LED	First aid kit and fire extinguisher
Warning beacon, LED	Fire extinguisher
Working lights, LED	Wheel chocks
Entrance light	Service and maintenance
Seat belt indicator, external	Lube system, standard machine
Anti-theft system (pin code)	Tool kit
Rear view camera	Other
Reverse alarm	Arctic oil kit
CAN-BUS interface, extra	CareTrack
Cab	Fast fuelling system
Noise reduction kit (fulfils 2000/14/EC)	Jump start connector, NATO -type
Anchorage, operator's manual	Haul Assist - Tire Pressure Monitoring System
Cab heating/ventilation timer	Hauler chassi (without body)
Cable kit, for cab heater	
HEPA cab air filter	
Bluetooth radio kit	
Rear view mirrors, adjustable, el.heated	
Seat belt XXL, non-retractable	
Sun blinds, side windows	
Universal key	
Air suspended, heated, fully adjustable seat	
Armrest for operator seat	
Headrest for operator seat	





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