

INSPECTION REPORT

VOLVO G946 - AWD

The Volvo G946 - AWD motor grader is a reliable and high-performance machine built in 2011. It is equipped with a powerful Volvo D7E GAE3 engine providing 180 kW, designed to meet EPA standards. This machine includes a push block, ripper, and operates on a 6x6 drive system. The low-profile EROPS cabin features auto shift and hydraulic tip control for enhanced comfort and control. Additional features include a backup camera, differential unlock, AM/FM Radio, and a beacon. The grader's center blade width is 4.27 meters, making it ideal for large-scale operations. This unit is in very good and clean condition, weighing 19,630 kg and measuring 10.77 x 2.78 x 3.24 meters with 7020 run hours.



Specifications

Year	2011
Hours	7020
Weight	19.630 kg
Serial number	VCE0G946E00504039
Reference	212535

Features

Engine and model	Volvo D7E GAE3
Engine power in kW	180 kW
EPA	EPA
Push block	✓
Ripper	✓
Cabin	Low profile erops cabin
Hydraulic tip control	✓
Width of the center blade	4.27m
Beacon	✓
Overall condition	In very good and very clean condition.

General Appearance

Stamped serial number checked	Yes
Serial number plate checked	Yes
Paint	★★★★★
Decals	★★★★★
Bonnet	★★★★★
Engine cover doors	★★★★★
Battery box	★★★★★
Radiator grill	★★★★★
Steps/ladders	★★★★★
Grab irons	★★★★★
Cabin	★★★★★
Pre-cleaner bowl	★★★★★
Cracks or welds	No

Engine Details And Condition

Engine number	10941219
EPA sticker available	Yes
Air cleaner	Clean
Anti-freeze level °C	-52°C
Diesel anti-freeze added	Yes
Diesel level ok	Yes
Cooling liquid level ok	Yes
Engine oil level ok	Yes
Exhaust manifold	★★★★★
Muffler	★★★★★
Exhaust stack	★★★★★
Engine supports	★★★★★
Hoses	★★★★★
Good cold start	Yes
Engine power	★★★★★
Blow by	★★★★★
Knocking	No
Compression in the radiator	No
Water in the oil	No
Oil in the water	No
Smoke	Normal
Engine leaks	No
Belts and pulleys	★★★★★
Fan	★★★★★
Radiator	★★★★★

Operator Station

Hourmeter	Working
Air conditioning	Not Working
Heater	Working
Gauges	Working
Switches	★★★★★
Warning	No Warnings Available
Mirrors	Not Broken
Cabin glass	Not broken
Display	★★★★★
Windshield wipers	Working
Interior lights	Working
Cabin floor	★★★★★
Interior roof	★★★★★
Seat	★★★★★
Steering column	★★★★★

Steering

Articulate cylinder leaking	No
Play articulate cylinder	★★★★★
Play articulating point	★★★★★
Wheel lean cylinder leaking	No
Play wheel lean cylinder	★★★★★
Steering cylinders leaking	No
Play steering cylinders	★★★★★
Play king pin front axle	★★★★★
Steering frame	★★★★★
Steering pump	★★★★★
Steering operating condition	★★★★★

Blade

Circle A frame	★★★★★
Play circle A frame	★★★★★
Circle frame	★★★★★
Play circle frame	★★★★★
Cutting edge	★★★★★
Ring gear	★★★★★
Moldboard skin	★★★★★

Ripper

Play ripper	★★★★★
Lifting cylinder leaking	No
Ripper frame	★★★★★
Number of ripper shanks	3

Hydraulics

Hydraulic oil level ok		Yes
Hydraulic lines and fittings	★ ★ ★ ★ ★	
Hydraulic tank/sight glass and cap	★ ★ ★ ★ ★	
Play lift cylinder	★ ★ ★ ★ ★	
Little play		
Lift cylinders leaking		No
Play side shift cylinder	★ ★ ★ ★ ★	
Side shift cylinder leaking		No
Play circle shift cylinder	★ ★ ★ ★ ★	
Circle shift cylinder leaking		No
Play tip cylinder	★ ★ ★ ★ ★	
Tip cylinder leaking		No
Hydraulic valves leaking		No
Circle drive leaking		No
Operating condition hydraulics	★ ★ ★ ★ ★	
Noise hydraulic pump normal		Yes

Brake

Service brake operation	★ ★ ★ ★ ★	
Parking brake operation	★ ★ ★ ★ ★	
Compressor	★ ★ ★ ★ ★	
Brake pedal	★ ★ ★ ★ ★	

Transmission

Transmission controls	★ ★ ★ ★ ★	
Transmission noisy		No
Leaks		No
Transmission oil level ok		Yes
Transmission fully operational in all gears forward and reverse		Yes

Drive Chain/Tandems

Differential lock/unlock working		Yes
Left tandem leaking		No
Left tandem oil level ok		Yes
Right tandem leaking		No
Right tandem oil level ok		Yes
Wheel bolts and rims	★ ★ ★ ★ ★	

Electrical, Starting And Charging System

Alternator functioning	Yes
Wiring	★★★★★
Batteries	★★★★★
Starter	★★★★★
Head lights working	No
Tail lights working	Yes
Signal lights working	Few lights don't work
Additional work lights working	Few lights don't work

Safety Items

Backup alarm	Working
Backup camera	Not Working
Seat belt	Available
Horn	Not Working
Parking Brake	Working
Beacon	Not Working

Tyres

Front Left Tyres

Percentage life remaining	60%
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Middle Left Tyres

Percentage life remaining	70%
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Rear Left Tyres

Percentage life remaining	30%
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Rear Right Tyres

Percentage life remaining	70%
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Middle Right Tyres

Percentage life remaining	70%
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Front Right Tyres

Percentage life remaining

70%



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