4206D CONSTRUCTION SCRAPER TRACTOR





key features

Gross Power

Gross TorqueGross Weight

315 kW (422 hp)

2 000 Nm (1,473 lbft) 22 140 kg (48,810 lbs)



ENGINE

Mercedes Benz OM501LA

Configuration Turbocharged and intercooled Aspiration

Liquid cooled with single pass radiator as Cooling System

well as charge air cooler

315 kW (422 hp) @ 1 800 rpm Gross power

SAE J1349

308 kW (413 hp) @ 1 800 rpm Net Power 2 000 Nm (1,473 lbft) @ 1 080 rpm Gross torque

SAE J1349

1 974 Nm (1,453 lbft) @ 1 080 rpm 11,95 litres (730 cu.in) Net Torque

Displacement 485 ¢ (128 US gal) Fuel tank capacity

TRANSMISSION

Allison HD 4060

Engine mounted box with rear output Layout Constant meshing planetary gears, clutch Gear layout

operated

6 Forward, 1 Reverse Gears

Hydraulically operated multi-disc Clutch type

Electronic Control type

Torque converter layout Hydrodynamic, with lock-up in all gears

Vehicle speeds

2nd 3rd 4th 5th 5.6 14,0 18,7 26,7 36,2 39,0 km/h 8.7 11.6 16.6 22.5 24.2 3.5 mph

TRANSFER CASE

Output differential

VGR 17000

Three in-line helical gears Layout

Interaxle differential, pneumatically lockable

whilst stationary or on the move.

AXLES

Bell 25 tonne

Spiral bevel type with Controlled Traction Differential type

Differentials (CTD) Outboard heavy duty planetary

Final drive type

Steel fabricated

Housing type

BRAKING SYSTEM

Dual circuit, full hydraulic actuation SERVICE BRAKE

ventilated dry disc brakes

134 kN (30,124 lbf) Maximum brake force

Spring applied, air released driveline-PARK & EMERGENCY

mounted disc.

440 kN (98,920 lbf) Maximum brake force

Automatic exhaust brake and Engine Valve Auxilliary Brake

Brake (EVB)

WHEELS

Tyre Type

875/65R29 Size

Radial Earthmover

SUSPENSION

Semi-independent leading A-frame Front type

supported by nitrogen/oil struts

Solid mounted Rear type

HYDRAULIC SYSTEM) Full load sensing system serving the

prioritized steering, scraper and brake functions. A ground-driven, load sensing emergency steering pump is integrated

into the main system

Variable displacement, loadsensing Pump Type

piston

Application Steering, scraper operation, hydraulic brake charging and cooling fan drive

300 e/min (79.26 US gal/min)

Flow: 20 MPa (2,900 psi) Pressure:

HYDRAULIC SYSTEM

(continued) Scraper Configurations

2 Scrapers: 3 controls per scraper

3 Scrapers: 2 controls per scraper

- Scrapers

Hydraulic Control Valve The Control Valve is a stackable multisection, load sensing, pressure compensated, proportional directional valve with port relief valves in the down ports. The valve consists of 6 sections. Coupling is done via 12 female quick couplers situated on the rear of the

machine.

Electro Hydr. controls -

Scrapers

Parker Hydraulics IQAN System. Fully programmable. Hydraulic Flow Rates can be adjusted on Display Module.

PNEUMATIC SYSTEM

Air drier with heater and integral unloader valve, serving park brake and auxiliary

functions

810 kPa (117 psi) System pressure

ELECTRICAL SYSTEM

24 V Voltage

Two maintenance free permanently Battery type

sealed

2 x 105 Ah (optional 2 extra batteries) Battery capacity

28 V 100 A Alternator rating

STEERING SYSTEM Hydrostatically actuated by two double acting cylinders, with ground-driven

emergency steering pump.

Angle +- 42 degrees

Lock to lock turns 4.7

OPERATING WEIGHTS

Front Rear

14 540 kg (32,055 lbs) 7 600 kg (16,755 lbs) 22 140 kg (48,810 lbs)

STANDARD EQUIPMENT

Gross Weight

Cab

ROPS/FOPS certification

 Handrails on fenders
 Tilt cab for service access . Gas strut supported door . Tinted safety glass . Sliding windows . Rearview mirrors- regular and

wide angle • Sun visor • Wiper/washer with intermittent control . Rear window wiper/washer . Tilt and telescoping steering wheel . Adjustable, air suspension seat with retractable seat

belt, rotated by 15 degrees • Fold-away trainer seat with retractable seat belt HVAC climate control system with filtered and ducted air . Áir horn

 Overhead console for FM and 2-way radio, compartments for storage, electrical relays and circuit breakers

Ashtray
 Drinks holder

Cooled/heated lunchbox • Wheel

spanner set

MDU Features • Trip timer • Trip distance • Diagnostics • Intermittent wiper timing control . Speedo calibration for alternative tyre sizes • Metric /Imperial unit selection . Warning lights with audible buzzer

(continued)

STANDARD EQUIPMENT Analogue Gauges • Engine coolant temperature . Engine oil pressure System air pressure • Transmission oil temperature • Fuel • Speedometer

LCD Display • Transmission gear selection • Tachometer • Battery voltage

• Hourmeter • Odometer

Brakes Vented dry disc calipers on front and

rear axles

Fully hydraulically actuated

Spring applied air release park brake

on rear driveshaft

0ther

Ground driven emergency steering

Tow recovery cable

OPTIONAL EQUIPMENT (Factory and field installed) 29.5R25 radial earthmover tyres Groeneveld central lubrication system

Flashing beacon Work lights
Artic reverse light
Electrical horn 2 extra batteries

Fuel filter heating element

Electric adjust and heated mirrors (one

per side)

Dual circuit oil immersed multidisc brakes on front and rear axles with remote

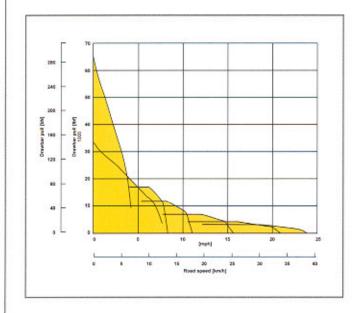
multidisc brake cooler

Provision for:

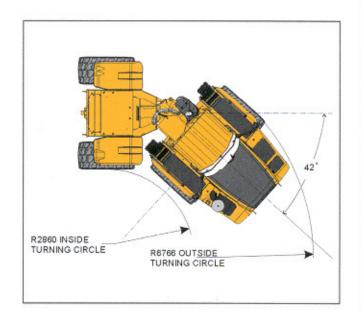
FM and 2-way radios

Wiggins quick fueling system

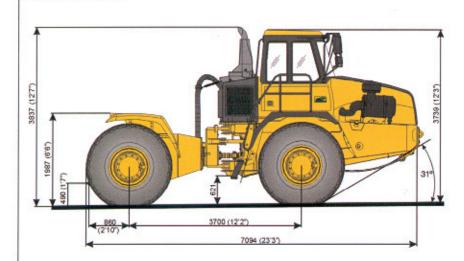
DRAWBAR PULL GRAPH

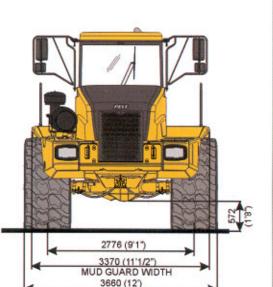


TURNING RADIUS



TURNING RADIUS



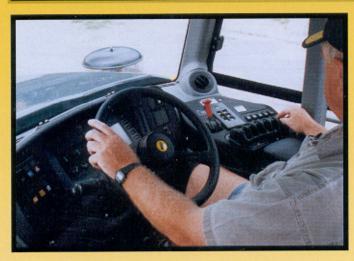


4206 D









What makes the 4206D the Ultimate Scraper Tractor...

- True construction machine heritage.
- Heavy duty drivetrain, transmission and axles designed for 60 ton + gross weight application.
- Supreme driver comfort from a nitrogen over oil strut semi independent suspension system.
- Programmable Hydraulic Control System permitting fine tuning of the Scraper controls.
- Torque converter drive with lock up clutch provides torque multiplication while reducing drivetrain shock loads.
- Lock up clutch provides direct drive economy.

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