856H - Stage V
WHEEL LOADER

Engine
Cummins QSB6.7 Stage V

Gross Power
245 hp (183 kW)

Operating Weight
41,006 lb (18,600 kg)

Bucket Size
4.2 yd³ (3.2 m³)
# 856H - STAGE V

## ENGINE
- Emissions regulation: EU Stage V
- Make: Cummins
- Model: QSB6.7
- Max gross power: 245 hp (183 kW) @ 1,700 rpm
- Max net power: 225 hp (168 kW) @ 2,000 rpm
- Peak torque: 874 lb-ft (1,186 N-m) @ 1,300 rpm
- Displacement: 409 in³ (6.7 L)
- Number of cylinders: 6
- Aspiration: Turbocharged & air-to-air intercooled

## TRANSMISSION
- Transmission type: Countershaft, power shift
- Torque converter: Single-stage, three-element
- Maximum travel speed, fwd: 24.0 mph (38.6 km/h)
- Maximum travel speed, rev: 15.5 mph (24.9 km/h)
- Number of speeds, fwd: 4
- Number of speeds, rev: 3

## AXLES
- Differential front type: Limited slip
- Differential rear type: Limited slip
- Axle oscillation: ±12°

## STEERING
- Steering configuration: Articulated
- Steering pressure: 2,611 psi (18.0 MPa)

## BRAKES
- Service brake type: Wet discs, two independent circuits
- Service brake actuation: Hydraulic
- Parking brake type: Manual electronic control
- Parking brake actuation: Hydraulic

## HYDRAULIC SYSTEM
- Main pump type: Piston
- System pressure: 3,191 psi (22 MPa)
- Raise: 5.3 s
- Dump time: 1.0 s
- Float down time: 3.0 s
- Total cycle time: 9.3 s

## LOADER ARM PERFORMANCE WITH ATTACHMENT
- Tipping load - straight: 29,542 lb (13,400 kg)
- Tipping load - full turn: 25,794 lb (11,700 kg)
- Bucket breakout force: 42,039 lbf (187 kN)
- Maximum hinge pin height: 13 ft 7 in (4,156 mm)
- Dump clearance at full height discharge: 9 ft 9 in (2,980 mm)
- Dump reach at full height discharge: 3 ft 8 in (1,125 mm)
- Maximum digging depth, bucket level: 1 in (30 mm)
- Bucket rollback at ground level: 42°
- Bucket rollback at carry: 47°
- Bucket rollback at maximum height: 60°
- Maximum dump angle at full height: 45°

## BUCKET PERFORMANCE
- Bucket capacity: 4.2 yd³ (3.2 m³)

## DIMENSIONS
- Ground clearance: 17 in (431 mm)
- Wheelbase: 10 ft 10 in (3,320 mm)
- Cab height: 11 ft 3 in (3,450 mm)
- Wheel tread: 7 ft 0 in (2,150 mm)
- Width over tires: 9 ft 0 in (2,750 mm)
- Length with bucket down: 27 ft 3 in (8,318 mm)
- Turn angle, either side: 38°
- Rear angle of departure: 27°
- Turning radius, bucket carry: 22 ft 9 in (6,954 mm)
- Turning radius, outside of tire: 20 ft 4 in (6,205 mm)
- Width over bucket: 9 ft 8 in (2,928 mm)

## TIRES
- Tire size: 23.5R25 L3 tire

## OPERATING WEIGHTS
- Operating weight: 41,006 lb (18,600 kg)

## SERVICE CAPACITY
- Fuel tank: 71.3 (270 L)
- Engine oil: 4.8 gal (18 L)
- Cooling system: 11.6 gal (44 L)
- Hydraulic system: 66.6 gal (252 L)
- Transmission: 9.3 gal (35 L)
- Axles, each: 11.6 gal (44 L)
- DEF tank: 13.2 gal (50 L)