







Engine

| Engine Model | Cat C11 ACERT | at C11 ACERT Tier 3 | |
|----------------------------------|-------------------|---------------------|--|
| Gross Power SAE J1995 | 242 kW | 325 hp | |
| Net Power ISO9249 | 239 kW | 321 hp | |
| Net Power SAE J1349 | 237 kW | 317 hp | |
| Displacement | 11.15 L | 680 in3 | |
| Bore | 130 mm | 5.1 in | |
| Stroke | 140 mm | 5.5 in | |
| Number of Cylinders | 6 | | |
| Max Torque @ Rated Speed | 1430 Nm @ 1300rpm | | |
| Derating Altitude 3048 m 9843 ft | 3048 mn | 9843 ft | |

- $\ensuremath{^{\bullet}}$ These ratings apply at 1,800 rpm when tested under the specified standard conditions
- ${\boldsymbol{\cdot}}$ Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator. No derating required up to 3,000 m (9,843 ft) altitude
- Based on standard air conditions of 25° C (77° F) and 99 kPa (29.32 in Hg) dry barometer. Used 35 API gravity fuel having an LHV of 42,780 kJ/kg (18,390 BTU/lb) when used at 30° C (86° F) [ref. A fuel density of 838.9 g/L (7.001 lb/gal)

Electrical

| Alternator | 150 amp |
|--------------------|-----------------|
| Electrical System | 24 V |
| Battery - Quantity | 2 |
| Battery - Volts | 12 V |
| Battery - Capacity | 1400CCA |
| Starting System | Direct Electric |

Powertrain

| Travel Speed - Fwd. 1st | 5.5 km/h | 3.4 mph |
|------------------------------|---|----------|
| Travel Speed - Fwd. 2nd | 10.4 km/h | 6.5 mph |
| Travel Speed - Fwd. 3rd | 15.8 km/h | 9.8 mph |
| Travel Speed - Fwd. 4th | 24.2km/h | 15.0 mph |
| Travel Speed - Rev. 1st | 6.1 km/h | 3.8 mph |
| Transmission | 4 fwd / 1 rev powershift | |
| Transmission Cooler Type | Tube and Bund | |
| Steering, Frame Articulation | +/- 42.5° | |
| Brakes - Service Type | Multiple WET disc enclosed Spring applied wheel ends | |
| Brakes - Parking Type | Multiple WET disc enclosed Spring applied wheel ends | |
| Tyres | 18.00 R25 | |
| | | |

Hydraulic System

| Circuit Type | Closed centre variable flow | |
|----------------------------------|-----------------------------|-----------|
| Pump Type | Axial piston | |
| Pump Output | 174 L/min 46 gal/min | |
| Relief Valve Setting | 21,000 kPa | 3,045 psi |
| Steering Valve | Direct link, non follow | |
| Steering Cylinder - Bore | 114.3 mm | 4.5 in |
| Steering Cylinder - Stroke | 437.5 mm | 17.22 in |
| Steering Cylinder - Rod Diameter | 50.8 mm | 2 in |

Service Refill

| Fuel Tank | 361 L | 94 gal |
|--------------------------------|-------|----------|
| Cooling System | 67 L | 18 gal |
| Differential, Final Drive - F | 55 L | 14.5 gal |
| Differential, Final Drive - R | 55 L | 14.5 gal |
| Engine Oil | 41 L | 11 gal |
| Transmission, Torque Converter | 36 L | 9.5 gal |
| Hydraulic Tank | 151 L | 49 gal |
| Brake Cooling Tank | 67 L | 18 gal |

Weights

| Gross Vehicle Weight (GVM) | 42,631 kg | 93,985 lbs |
|----------------------------|-----------|------------|
| Tare Weight | 26,411 kg | 58,226 lbs |

^{*}Tare weight includes one operator and a full tank of fuel.

Speed on Grade

| Grade | Vehicle Speed (km/h) | | | | |
|-----------------------------------|----------------------|---------|---------|---------|---------|
| | 1st Fwd | 2nd Fwd | 3rd Fwd | 4th Fwd | 1st Rev |
| 1:7 (14%) Empty (26,411 kg) | 5.5 | 10.4 | 15.8 | - | 6.1 |
| 1:7 (14%) GVM (42,631 kg) | 5.5 | 10.4 | - | - | 6.1 |

^{*}Note: 2% rolling resistance

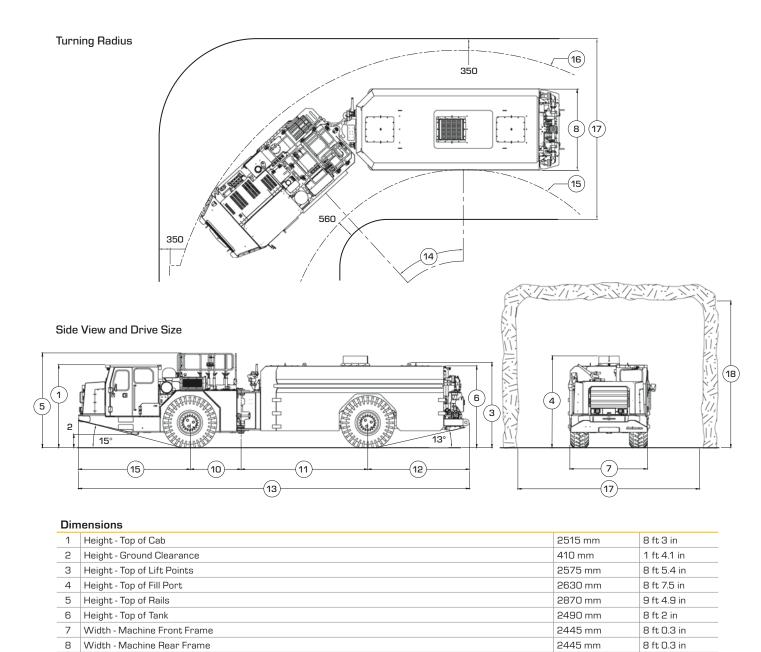
Water Tank

| Camera | 2x Reverse / Auxiliary on Rear of Tank, 1x on Top / Front of Tank Facing Rearward | |
|--------------------------------------|---|----------|
| Drain Valve | 76 mm | 3 in |
| Gauge, Pump Pressure | Rear Side of Tar | ık |
| Gauge, Water Level | Rear Side of Tar | ık |
| Lights, Work | 4x on Rear of Tank | |
| Port, Top Fill | High Volume Port for Top Filling of Tank Filling Tank from Side of Machine Rear / Centre for Dust Suppression | |
| Port, Side Fill | | |
| Spray Head, Rear, 1 x 76 mm (3 in) | | |
| Spray Head, Side, 2 x 38 mm (1.5 in) | LHS / RHS for Dust Suppression | |
| Tank, Auto Low Level Shut Off Switch | | |
| Tank, Water | 16,145 L | 4265 gal |
| Standards | | |

Standards

| ROPS/FOPS | ISO 3471:2008 / ISO 3449:2005 |
|-----------|----------------------------------|
| Steering | ISO 5010:2007 |
| Braking | ISO 3450-2011/CSA- M424.3-M90 |





13 Length - Overall

14 Articulation

9

Length - Front Axle to Bumper

12 Length - Rear Axle to Rear Guard

10 Length - Front Axle to Hitch

11 Length - Hitch to Rear Axle

| 15 | Radius - Inside Clearance | 5280 mm | 17 ft 3.9 in |
|----|-------------------------------|---------|--------------|
| 16 | Radius - Outside Clearance | 8925 mm | 29 ft 3.4 in |
| 17 | Width - Drive Clearance | 5500 mm | 18 ft 0.5 in |
| 18 | Typical Minimum Height Portal | 5000 mm | 16 ft 4.8 in |

3390 mm

1560 mm

3857 mm

3059 mm

11860 mm

42.5°

11 ft 1.5 in 5 ft 1.4 in

12 ft 7.8 in

10 ft 0.4 in

38 ft 10.9 in



| Powertrain | |
|---|----|
| 4WD Transfer Box | • |
| Air Cleaner, 2-Stage with Rain Cap | • |
| Axle Breathers, Remote Mounted | 0 |
| Brakes - Engine Compression | • |
| Brakes - Parking, Four Wheel Spring Applied, Pressure Release, Enclosed Disc | • |
| Brakes - Service, Four Wheel Spring Applied Pressure Release, Enclosed Disc | • |
| Coolant, Arctic Extended Life -52°C Protection | 0 |
| Coolant, Extended Life -37°C Protection | • |
| Cooling Package, Radiator And Aftercooler | • |
| Driveline Slip-Joint, Lubricated for Life | • |
| Engine, Exhaust Manifold, Shielded and Insulated | •• |
| Engine, Cat C11, ACERT Technology, ATAAC | • |
| Engine, Exhaust, Diesel Particulate Filter With Back Pressure Monitoring | • |
| Engine, Overspeed Inhibitor | • |
| Engine, Shutdown System to Idle/Stop | 0 |
| Fan, Hydraulic, Sucker, Temperature Controlled | • |
| Filters, Fuel (Primary/Secondary)/Engine Air, Hydraulic Oil, Pump Case Drain, Brake Cooling Oil, Implement | • |
| Final Drives, Inboard Planetary | • |
| Fire Resistant Sheathing on Fuel Lines, External | 0 |
| Front Axle, Oscillating | • |
| Fuel Tank, High Capacity | • |
| Fuel Transfer Pump (Mechanical) | • |
| Lock-Up Torque Converter | • |
| Low Transmission Oil Pressure Monitoring | 0 |
| Manual Fuel Shutoff Valve at the Tank | • |
| Muffler/Catalytic Converter | • |
| Stainless Steel Braided Fuel Lines, External | 0 |
| Steering, Rotary Metering Pump | • |
| Transmission, Power-Shift (4F/1R) With Auto-Shift Function | • |
| Universal Joints with Lube Points | • |
| Fast-fill systems | |
| Coolant, Engine Oil, Hydraulic Oil, Transmission Oil, Brake Cooling | • |
| Fuel | 0 |
| Fuel with Machine Isolation | 0 |
| Operator Environment | |
| Brake Retarder Control, Automatic | • |
| Brake Retarder Control, Manual | • |
| Brakes, Park, Onboard - Push to Engage | • |
| Brakes, Park, Onboard - Pull to Engage | 0 |
| Cabin, Open, ROPS/FOPS | • |
| Cabin, Enclosed, ROPS/FOPS, Climate Controlled Air Conditioning System, Window Sliding Operator, Windshield Wiper Washer, Window Emergency Egress Seals | 0 |
| Camera, Off-side | 0 |
| | |

• •

• •

•

0

•

•

•

••

station (FOPS/ROPS))

| Rear Window Guard | • |
|--|-----|
| Seat Cover | 0 |
| Seat, Suspension - Active Air | 0 |
| Seat, Suspension - Air | 0 |
| Seat, Suspension - Mechanical | • |
| Seatbelt, 2-point, Retractable Lap | •• |
| Seatbelt, 2-point, Retractable Lap, Occupancy Indicator | 0 |
| Steering Wheel, Tilt and Telescoping | • |
| Storage Compartment | • • |
| Instrumentation, Guages | |
| Brake, Accumulator Pressure | • |
| Brake, Parking, Pressure | • |
| Brake, Service, Pressure | • |
| Engine, Coolant Temperature | • |
| Engine, Oil Pressure | • |
| Fuel Level | • |
| Speedometer | • |
| Steering System Pressure | • |
| Tachometer | • |
| Transmission, Oil Temperature | • |
| Instrumentation, Warning Indicators | |
| Brake, Accumulator Oil Pressure | • |
| Brake, Cooling Filter Back Pressure | • |
| Brake, Cooling Oil Level | • |
| Brake, Cooling Oil Temperature | • |
| Brake, Fault | • |
| Brake, Parking, Application | • |
| Charging System | • |
| Door Open | • |
| Emergency Stop, Activation | • |
| Engine, Coolant Level | • |
| Engine, Coolant Temperature | • |
| Engine, Fault | • |
| Engine, Oil Pressure | • |
| Hydraulic, Oil Level | • |
| Hydraulic, Oil Temperature | • |
| Lights, Work - Bowl | • |
| Lockup Clutch | • |
| Primary Steering Pressure | • |
| Retarder On | • |
| Seat Belt | • |
| Secondary Steering Pressure | • |
| Stabilizers Down | • |
| Torque Converter, Oil Temperature | • |
| Transmission Fault | • |
| Transmission Filter Bypass | • |
| Instrumentation, Digital Data | |
| Computerised Diagnostics and Monitoring | • |
| Gear and Direction | • |
| Odometer | • |
| Service Hour Meter | • |
| Electrical | |
| Accessory Power Port (12 V) | • |
| Alarm, Back-up | • • |
| Alternator, 100 amp | • |
| Alternator, High Output, 150 amp (Part of Enclosed operator station (FOPS/ROPS)) | 0 |

Fire Extinguisher, 4.5 kg, Hand Held Dry Chemical Powder

Camera/Monitor, Reversing

Door Pocket

Light, Dome

Light, Entry

4A:60B:E LH Side Heated Mirrors, Rear View

Holder, Water Bottle

Mirrors, Rear View



Electrical

| 2.000.100. | |
|--|----|
| Auxiliary Start Receptacle | • |
| Batteries, Maintenance Free (2x 1400 CCA) | • |
| Battery Isolation, Lockable Disconnect Switch (2 Pole) | •• |
| Battery Isolation, (4 Pole) | 0 |
| Beacon, Flashing, LED, Front/Rear of Cab (Amber) | •• |
| Beacon, Flashing, LED, Front/Rear of Cab (Blue) | 0 |
| Beacon, Rotating, Cab, Mounted (Various Colours Available) | 0 |
| Diagnostic Connector | • |
| Digital Inclinometer Display, Dashboard | •• |
| Electrical Connectors, Sealed | • |
| Electronic Monitoring System | • |
| Emergency Stop - Cabin | •• |
| Emergency Stop - Ground Level, RH Side, Engine Bay | •• |
| Emergency Stop - Ground Level, LH Side Front | 0 |
| Horn, Warning | •• |
| Lights, Stop/Tail/Turn | • |
| Lights, Brake and Tail | • |
| Lights, Headlights with Dip Switch | • |
| Lights, Work, Rear - Cab Mounted | • |
| Lights, Work, Rear of Tank | 0 |
| Lights, Work, Water Cannon | • |
| Lights, Reversing | • |
| Operator Presence | 0 |
| Starter Isolator, Lockable | •• |
| Starter Isolator, (4 Pole) | 0 |
| Starter, Electric, Heavy Duty | • |
| Starting and Charging System (24 V) | • |
| USB Charger Outlet (5 V) | • |
| | |

Hydraulics

| Tiyar danoo | |
|-------------------------------------|----|
| Bowl Motor with Quick-Connect Lines | • |
| Brakes, Cooling Filters | • |
| Brakes, Cooling Oil Coolers | • |
| Brakes, Separate Cooling Tank | • |
| Burst Protection, Hoses | •• |
| Closed Centre, Load Sensing System | • |
| Hydraulic Oil Cooler | • |
| Line Filter, Full Flow Return | • |
| | |

Water Tank & Work Tools

| Pump-Water Pressure Gauge | • |
|--|---|
| Spray Head - Rear, Centre, 76 mm (3 in) | • |
| Spray Head - Rear, Both Sides, 38 mm (1.5 in) | • |
| Tank, Automatic Low Level Shut Off Switch | • |
| Tank Level Gauge | • |
| Water Cannon with Tilt and Slew, Variable Water Output | 0 |
| Water Pump, Centrifigal - High Volume | • |
| Water Pump, Hydraulic Motor Pressure Gauge | • |
| Operator Display | |
| Dust Suppression Water Output Rate (Variable) | • |
| Pump, Control Metrics | • |
| Tank, Low Level Alarm | • |
| Tank, Level Indicator | • |
| Visual Indicator, Active Spray Head | • |

Other

| Other | |
|---|----|
| Anti-Corrosion Protection Spray | • |
| Articulation Lock Link | •• |
| Centralised Service Centre (Grouped Filters, Transmission Fill and Engine Fill) | • |
| Ecology Drains (Hydraulic Tank) | • |
| Engine, Enclosures, Hinged | • |
| Film, Gp Reflective, Flourescent Orange | 0 |
| Film, Gp Reflective, Flourescent Yellow | •• |
| Fire Extinguisher, 9 kg, Hand Held Dry Chemical Powder 6A:80B:e LH and RH Side | • |
| Fire Suppression System, Ansul A101 Dry Chemical Powder, Engine Shutdown | • |
| Fire Suppression System, Sandvik Aqueous-Film Forming Foam, Engine Shutdown | • |
| Firewall | •• |
| Grease Lubrication System, Automatic | 0 |
| Grease Lubrication System, Centralised, Manual | • |
| Guards, Pivoting, Under Engine And Transmission | • |
| Handrails, Fixed for Top Covers | • |
| Handrails, Folding for Top Covers | 0 |
| Handrails, Painted Contrasting High-visibility Green | •• |
| Ladder, Folding, Engine Access | •• |
| Lift, Tie Down and Retrieval Points (Front and Rear) | • |
| Mudguards | • |
| Oil Sampling Ports, SOS™ | • |
| Radiator Ap, Manual, Anti-scald Pressure Release | •• |
| Rim Identification | 0 |
| Rim, Spare (18.00R25) | 0 |
| Steering Lockout, Park Brake Engaged | •• |
| Steering, Secondary | •• |
| Tank, Coolant Make Up | • |
| Tooling - Engine Timing | 0 |
| Tyre and Rim, Spare (18.00R25) | • |
| Tyres and Tubeless Rims (18.00R25) | • |
| Wheel Chocks 2x (Checkers, MC3010) | •• |
| Wheel Chocks 2x (Checkers, UC1210) | • |
| Wheel Nut Retention Indicators | 0 |



WR820 WATER TANK

For more complete information on Elphinstone products, dealer services, and industry solutions, visit www.elphinstone.com or contact your local Cat® dealer.

Material and specifications are subject to change without notice. Featured machines in photos may include additional equipment.

Elphinstone and their respective logos, as well as corporate and product identity used herein, are trademarks of Elphinstone and may not be used without permission.

© 2024 Elphinstone. All rights reserved. Made in Australia for export.





HM06626-05 (11-2024)