







## **Engine**

| Engine Model                     | Cat 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      |         |

- These ratings apply at 1,800 rpm when tested under the specified standard conditions
- 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<br>Spring applied wheel ends |          |
| Brakes - Parking Type        | Multiple WET disc enclosed<br>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         | 101.6 mm                    | 4 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) | 42,200 kg | 93,035 lb |
|----------------------------|-----------|-----------|
| Tare Weight                | 23,060 kg | 50,839 lb |

<sup>\*</sup>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%)<br>Empty<br>(23,060 kg) | 5.5                  | 10.4    | 15.8    | 20.8    | 6.1     |
| 1:7 (14%) GVM<br>(42,200 kg)      | 5.5                  | 10.4    | -       | -       | 6.1     |

<sup>\*</sup>Note: 2% rolling resistance

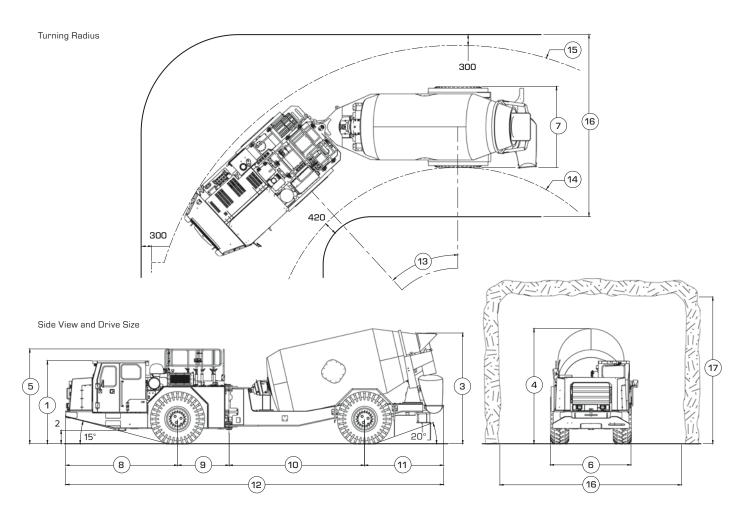
## Agitator

| Drum Volume                |                  |      |      |      |                  |                    |
|----------------------------|------------------|------|------|------|------------------|--------------------|
| Mixing / Carrying          | Capacity         |      |      |      | 8 m3             |                    |
| 100% Drum Volun            | ne               |      |      |      | 12.4 m3          |                    |
| Bowl Capacities            |                  |      |      |      |                  |                    |
| Material SG<br>(kg/m³)     | 2000             | 2100 | 2200 | 2300 | 2400             | 2500               |
| Max. Fill<br>Capacity (m³) | 8 m <sup>3</sup> | 8 m³ | 8 m³ | 8 m³ | 8 m <sup>3</sup> | 7.6 m <sup>3</sup> |

## Standards

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





## **Dimensions**

| Height - Top of Cab           | 2515 mm  | 8 ft 3 in  |
|-------------------------------|--|--|
| Height - Ground Clearance     | 410 mm   | 1 ft 4.1 in  |
| Height - Top of Feed Chute    | 3355 mm  | 11 ft 0.9 in   |
| Height - Top of Agitator      | 3490 mm  | 11 ft 5.4 in   |
| Height - Top of Rails         | 2870 mm  | 9 ft 4.9 in  |
| Width - Machine Front Frame   | 2445 mm  | 8 ft 0.3 in  |
| Width - Machine Rear Frame    | 2445 mm  | 8 ft 0.3 in  |
| Length - Front Axle to Bumper | 3390 mm  | 11 ft 1.5 in   |
| Length - Front Axle to Hitch  | 1560 mm  | 5 ft 1.4 in  |
| Length - Hitch to Rear Axle   | 4100 mm  | 13 ft 5.4 in   |
| Length - Rear Axle to Chute   | 2395 mm  | 7 ft 10.3 in   |
| Length - Overall              | 11445 mm   | 37 ft 6.6 in   |
| Articulation                  | 42.5°  |  |
|                               | Height - Ground Clearance Height - Top of Feed Chute Height - Top of Agitator Height - Top of Rails Width - Machine Front Frame Width - Machine Rear Frame Length - Front Axle to Bumper Length - Front Axle to Hitch Length - Hitch to Rear Axle Length - Rear Axle to Chute Length - Overall | Height - Ground Clearance       410 mm         Height - Top of Feed Chute       3355 mm         Height - Top of Agitator       3490 mm         Height - Top of Rails       2870 mm         Width - Machine Front Frame       2445 mm         Width - Machine Rear Frame       2445 mm         Length - Front Axle to Bumper       3390 mm         Length - Front Axle to Hitch       1560 mm         Length - Hitch to Rear Axle       4100 mm         Length - Rear Axle to Chute       2395 mm         Length - Overall       11445 mm |

## **Drive Size**

| 14 | Radius - Inside Clearance     | 5555 mm | 18 ft 2.7 in |
|----|-------------------------------|---------|--------------|
| 15 | Radius - Outside Clearance    | 9275 mm | 30 ft 5.2 in |
| 16 | Width - Drive Clearance       | 5500 mm | 18 ft 0.5 in |
| 17 | Typical Minimum Height Portal | 5000 mm | 16 ft 4.8 in |



| 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,<br>Enclosed Disc   | •  |
| Brakes - Service, Four Wheel Spring Applied Pressure Release,<br>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<br>Monitoring   | •  |
| Engine, Overspeed Inhibitor   | •  |
| Engine, Shutdown System to Idle/Stop  | 0  |
| Fan, Hydraulic, Sucker, Temperature Controlled  | •  |
| Filters, Fuel (Primary/Secondary)/Engine Air, Hydraulic Oil,<br>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<br>Oil  | 0  |
| 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  | 00 |
| Cabin, Open, ROPS/FOPS  | •  |
| Cabin, Enclosed, ROPS/FOPS, Climate Controlled Air<br>Conditioning System, Window Sliding Operator, Windshield<br>Wiper Washer, Window Emergency Egress Seals | •  |
| Camera, Agitator Discharge Chute  | 0  |
| Camera, Off-side  | 0  |
| Camera/Monitor, Reversing   | •  |
| Door Pocket   | •  |
| Fire Extinguisher, 4.5 kg, Hand Held Dry Chemical Powder<br>4A:60B:E LH Side  | •  |
| 11 . IM. D. V.  | _  |

| Rear Window Guard  | 0 |
|--|---|
| Seat Cover   | 0 |
| Seat, Suspension - Active Air  | 0 |
| •  | 0 |
| Seat, Suspension - Air Seat, Suspension - Mechanical                                       |   |
|  |   |
| Seatbelt, 2-point, Retractable Lap Seatbelt, 2-point, Retractable Lap, Occupancy Indicator |   |
| 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                                |   |

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Heated Mirrors, Rear View

Holder, Water Bottle Light, Dome

Mirrors, Rear View

Light, Entry



## Electrical

| Electrical  |     |
|---|-----|
| 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, Flashing, LED, Rear (Amber)                                   | 0   |
| Beacon, Flashing, LED, Rear (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   |
| Emergency Stop - Ground Level, Rear Bowl Control Panel                | • • |
| Emergency Stop - Ground Level, Rear Cab Side with or without Platform | ••  |
| Horn, Warning   | • • |
| Lights, Stop/Tail/Turn  | •   |
| Lights, Brake and Tail  | •   |
| Lights, Headlights with Dip Switch                                    | •   |
| Lights, Bowl, Rear - Sides of Bowl                                    | •   |
| Lights, Work, Rear - Cab Mounted                                      | •   |
| Lights, Work, Rear - Chute and Control Panel                          | •   |
| Lights, Work, Rear - Offside/Stair Access                             | •   |
| Lights, Work, Rear - Top of Bowl Support                              | •   |
| 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

| <b>-</b>                            |     |
|-------------------------------------|-----|
| 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       | •   |
|                                     |     |

## Agitator

| Additive Bottle Mount 1x 20 L                       | 0 |
|---|---|
| Additive Bottle Mount 2x 20 L                       | 0 |
| Additive Pump, Manual                               | 0 |
| Bowl Fill - Rear Load to Suit Conveyor              | 0 |
| Bowl Fill - Top Chute Load to Suit Hopper           | • |
| Bowl, Access Platform/Ladder                        | 0 |
| Bowl, Auxiliary Motor Discharge Hose Kit, Emergency | 0 |
| Bowl, Guards (Hitch to Bowl Support)                | 0 |
| Bowl, Spray Nozzle, Fixed                           | 0 |
| Bowl, Trunion Guards                                | • |

## Agitator

| Chute Extension                                  | 0 |
|--|---|
| Chute Extension, Placement                       | 0 |
| Rear Stabilisers                                 | 0 |
| Tank, Chemical Dosing with Pneumatic Pump, 265 L | 0 |
| Tank, Water, 235 L                               | 0 |
| Water Pump, High Pressure, Hose, Reel            | • |
| Water Pump, High Volume, Hose, Reel              | 0 |

| 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   | <b>•</b> |
| Film, Gp Reflective, Flourescent Yellow   | ••       |
| Fire Extinguisher, 9 kg, Hand Held Dry Chemical Powder<br>6A:80B:e LH and RH Side | •        |
| Fire Suppression System, Ansul A101 Dry Chemical Powder,<br>Engine Shutdown       | •        |
| Fire Suppression System, Sandvik Aqueous-Film Forming Foam,<br>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 - Empty Bowl Lifting  | <b>•</b> |
| Tooling - Engine Timing   | 0        |
| Tyre and Rim, Spare (18.00R25)  | 0        |
| Tyres and Tubeless Rims (18.00R25)  | •        |
| Wheel Chocks 2x (Checkers, MC3010)  | ••       |
| Wheel Chocks 2x (Checkers, UC1210)  | <b>•</b> |
| Wheel Nut Retention Indicators  | •        |



# **WR820 AGITATOR 8M<sup>3</sup>**

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