PRODUCT SPECIFICATIONS FOR R1300G

ENGINE

Engine Model	Cat® 3306B DITA
Engine Power - ISO 14396:2002	157 HP
Bore	4.75 in
Stroke	6 in
Displacement	640.75 in³
Note (1)	Power ratings apply at a rated speed of 2,200 rpm when tested under the reference conditions for the specified standard.
Note (2)	All rating conditions are based on ISO/TR14396:2002, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in Hg), with a vapor pressure of 1 kPa (0.295 in Hg), and 25° C (77° F). Performance measured using fuel to EPA specifications in 40 CFR Part 1065 and EU specifications in Directive 97/68/EC with a density of 0.845-0.850 kg/L @ 15° C (7.05-7.09 lb/gal @ 59° F) and fuel inlet temperature 40° C (104° F).
Note (3)	Engine derate will commence at an altitude of 4500 m (14,763.7 ft).

OPERATING SPECIFICATIONS

Nominal Payload Capacity	14991 lb
Gross Machine Mass	65482 lb
Static Tipping Load - Straight Ahead - Lift Arms Horizontal	45360 lb
Static Tipping Load - Full Turn - Lift Arms Horizontal	39397 lb
Breakout Force - SAE	26504 lb

WEIGHTS

Operating Mass*	45691 lb
Operating Mass* - Front Axle	16810 lb
Operating Mass* - Rear Axle	28881 lb
Operating Mass + Rated Payload*	60682 lb
Operating Mass + Rated Payload* - Front Axle	41105 lb
Operating Mass + Rated Payload* - Rear Axle	19577 lb
Note	*Calculated weights.

TRANSMISSION

Forward - 1	2.8 mile/h
Forward - 2	4.8 mile/h
Forward - 3	9.3 mile/h
Forward - 4	16.3 mile/h
Reverse - 1	2.8 mile/h
Reverse - 2	4.8 mile/h
Reverse - 3	9.2 mile/h
Reverse - 4	14.3 mile/h

HYDRAULIC CYCLE TIMES

Raise	5 s
Dump	2 s
Lower, Empty, Float Down	2.3 s

Total Cycle Time	9.3 s

BUCKET CAPACITIES

Dump Bucket - 1	3.2 yd^3
Dump Bucket - 2	3.7 yd^3
Dump Bucket - 3 - Standard Bucket	4.1 yd^3
Dump Bucket - 4	4.4 yd^3
Ejector Bucket	3.1 yd^3

TURNING DIMENSIONS

Outside Clearance Radius	225.1 in
Inner Clearance Radius	111.2 in
Axle Oscillation	10°
Articulation Angle	42.5°

TIRES

Tire Size	17.5 × R25

SERVICE REFILL CAPACITIES

Engine Crankcase - With Filter	6.6 gal (US)
Transmission	11.9 gal (US)
Hydraulic Tank	23.2 gal (US)
Cooling System	17.7 gal (US)
Front Differential and Final Drives	10 gal (US)

Rear Differential and Final Drives	11.1 gal (US)
Fuel Tank	77.9 gal (US)

STANDARDS

Standards	ROPS/FOPS Certified Cab

R1300G STANDARD EQUIPMENT

ELECTRICAL

Alternator, 75-amp
Receptacle group, auxiliary start
Battery Disconnect Switch, Ground Level
Starter, electric, 24-volt
Diagnostic Connector
Engine Shutdown Switch
Lighting:
– External, front, rear
– Stop, single
Batteries, low maintenance
Alarm, reversing
Starting and Charging System

TIRES, RIMS, AND WHEELS

Rims:
– Tubeless, set of four
Tires must be selected from the Mandatory Attachments section, choose between:
– Tire, 17.5 × R25 VSMS L5S Bridgestone
– Tire, 17.5 × R25, VSDL Bridgestone

OPERATOR ENVIRONMENT

Caterpillar Electronic Monitoring System (CEMS), (dash instrument panels)
Horns, electric
Instrumentation/gauges:
– Speedometer/tachometer
– Fuel level
– Hydraulic oil temperature
– Engine coolant temperature
Light, warning, residual brake
Pilot Hydraulic Implement Controls, Single Joystick
Cab, ROPS and/or FOPS certified
Steering and Transmission Integrated Control (STIC™) Steering
Seat, Suspension Tee with retractable seat belt

POWER TRAIN

Engine:
– Cat 3306B six cylinder, diesel
– DITA (Direct Injection, Turbocharged, Aftercooled)
Precleaner, engine air intake
Fuel Priming Aid
Brakes, full hydraulic enclosed wet multiple-disc (SAFR)
Heat Shields
Torque Converter
Transmission Neutralizer
Transmission, automatic planetary power shift (4F/4R)

OTHER STANDARD EQUIPMENT

Guards, engine and transmission
Bucket Dump (3.1 m3/4.1 yd3)
Catalytic Exhaust Purifier/Muffler
Cap, Radiator Manual Release
Decals, International Picto Graphics
Service oil sample
Fenders, Front, Rear
Firewall
Handholds
Hydraulic Oil Cooler, Swing Out
Valve, drain, transmission oil filter
Protection bars, rear frame
Radiator Grill, Swing Out

R1300G OPTIONAL EQUIPMENT

TIRES, RIMS, AND WHEELS

Rims:
– Tube, set of four
– Spare (Tube or Tubeless)
– Rim Identification Numbering

OPTIONAL EQUIPMENT

After-Treatment Options
– DPF (Flow Through)
Brake Release Arrangements, Includes Steering Release
– Recovery Hook
– Recovery Bar

Bucket:
– Cutting Edge, Bolt-On
– Cutting Edge, Cat Weld On
– Heel Shrouds, Ejector and Dump Buckets
– Lip Fully Welded or Tack Welded
– Mechanically Attached Wear Plate System (MAWPS)
– Various Sizes, Dump (2.5 m3/3.2 yd3, 2.8 m3/3.7 yd3, 3.4 m3/4.4 yd3), Ejector (2.4 m3/3.1 yd3)
– Standard Lip or Bolt-On Lip
– Wear Bars, Ejector and Dump Buckets
– Wear Liner
Covers:
– Guard, for lift arm and front frame lights
– Rear Grill (Additional Bolt-On Guard)
Draw Bar Attachment, Bolt-On
Fast Fill System:
– Coolant
– Engine Oil
– Fuel
– Hydraulic Oil
– Transmission Oil
Fluids
– Arctic Fuel
– Arctic Coolant
Lifting Group, Mine Transfer
Lubrication System
– Automatic
– Centralized
Operators Station ROPS/FOPS Enclosed
– Air Conditioning
– Cab Pressurizer and Filter
– Dome Light
– Door Strut
– Heater
– Radio Ready Compartment for Radio and Speakers
– Wiper Control, Intermittent
Park Brake Automatic Activation
Park Brake Switch Engagement
– Push to Apply
– Pull to Apply
Reflective Tape
Remote Control Interface (excludes Transmitter and Receiver), Includes Warning Lights (Green)
– Cattron
– RCT
Reversible Steering
Ride Control System

Rim
– Tube Type
– Tube or Tubeless (chain ready)
– Spare (Tube or Tubeless)
– Rim Identification Numbering
Secondary Steering System
Service Tools
– Recovery Bar (for use with Brake Release, Recovery Bar System)
– Reference Parts Manual for Additional Tooling Available
Switches
– Idle Timer
– Lift Arm Positioner
– Transmission Neutralizer Override Switch
– Transmission Pressure ABA Park Brake Engagement

OPERATOR ENVIRONMENT

Operator's Station ROPS/FOPS Enclosed:
– Air Conditioning
– Cab Pressurizer and Filter
– Dome Light
– Door Strut
– Heater
– Radio Ready Compartment for Radio and Speakers
– Wiper Control, Intermittent
Instrumentation/gauges:
– Brake pressures
Secondary Steering System

POWER TRAIN

Engine:
– After-Treatment Options – DPF (Flow Through)
Reversible Steering
Park Brake Automatic Activation
Park Brake Switch Engagement – Push to Apply/Pull to Apply
Radiator, High Efficiency