

80Z7 WHEEL LOADER



TUTT BRYANT
EQUIPMENT SALES



Versatile. Efficient. Comfortable.

Panoramic ROPS Cabin with Vertical Plane Curved Glass Windscreen, Full Length Glass Doors, and Factory Fitted Climate Control, Front & Rear Wipers with Washer. Radio with Aux. input, adjustable Air Suspension Seat with Seat Belt, Rear View Camera, Full Power Shift Transmission with 5 Forward & 3 Reverse complete with Power Up Switch. Limited Slip Differentials with Planetary Final Drives. Fully Floating Front & Rear Axles. Self Adjusting 4 Wheel, Hydraulic, Dual Circuit Sealed Wet Disc Brakes, Parking and Emergency Brakes. Intellitach Control System that optimizes the performance of the machine in any working condition and more.

ENGINE (EPA Tier 4 Interim/EU Stage IIIB certified)

Gross Power (SAE J1995)	200 HP/2,200 RPM (149 kW/2200RPM)
Net Power ISO 9249	193 HP/2,200 RPM (145 kW/2200RPM)
Make/Model	CUMMINS QSB6.7 diesel engine
Type	4-cycle, water-cooled, direct injection with turbocharger and air cooled intercooler
Fuel type	#2 Diesel (Requires ultra-low sulfur fuel.)
Fuel injection pump	Common rail type fuel injection
Governor	All speed electrical type
Cooling module type	Hydraulic-driven, suction-type fan, pressurized radiator
Number of cylinders	6
Bore and stroke	4.213" x 4.882" (107mm x 124mm)
Total displacement	408.2 in ³ (6.69 liters)
Alternator	AC24V - 1.56 kW (65 amp)
Air cleaner	Dry type (double element)
Starter motor	DC 24V 7.8 kW (10.5 HP)
Battery	12V - 108AH (1,000 CCA), 2 units

TORQUE CONVERTER AND TRANSMISSION

Torque converter	3 elements, single-stage, 1-phase
Transmission	Countershaft type, Full power shift
Speeds: Forward	1st: 3.9 MPH (6.2 km/hr) 2nd: 6.6 MPH (10.6 km/hr) 3rd: 9.9 MPH (16.0 km/hr) 4th: 14.8 MPH (23.8 km/hr) 5th: 22.4 MPH (36.0 km/hr)
Speeds: Reverse	1st: 4.0 MPH (6.5 km/hr) 2nd: 6.9 MPH (11.1 km/hr) 3rd: 15.5 MPH (24.9 km/hr)

SYSTEMS REFILL CAPACITY

LOCATION	GALLONS	LITERS
Fuel tank (diesel fuel)	67.4	255
Engine lubricant (including oil pan)	6.6	25
Engine coolant	7.4	28
T/M & T/C	7.1	27
Axle (front/rear)	8.5/8.5	32/32
Hydraulic oil tank	30.1	114
Hydraulic system (including hydraulic tank)	47.6	180

HYDRAULIC AND STEERING SYSTEM

Steering type	Articulated frame steering
Steering mechanism	Hydraulic power steering unit, pilot operated type
Lift (boom) cylinder	Two (2) double-acting piston type: 5.118" x 34.645" (130mm x 880mm)
Tilt (bucket) cylinder	One (1) double-acting piston type: 6.496" x 20.078" (165mm x 510mm)
Steering cylinder	Two (2) double-acting piston type: 2.756" x 17.401" (70mm x 442mm)
Main oil pump	Variable piston type: 72.6 GPM/710 PSI @ 2200 RPM (275 LPM/4.9MPa @ 2200 RPM)
Pilot oil pump	Gear type: 9.3 GPM/570 PSI @ 2200 RPM (35.1 LPM/3.9 MPa @ 2200 RPM)
Relief valve set pressure	Loading: 3974 psi, 27.4 MPa (280 kg/cm ²) Steering: 3974 psi, 27.4 MPa (280 kg/cm ²)
HYDRAULIC CYCLE TIME* front end loading, Z bar linkage system	
Lifting time (at full load)	5.9 sec.
Lowering time (empty)	3.3 sec.
Bucket dumping time	1.6 sec.
TOTAL	10.8 sec.

* Measured in accordance with SAE J732C

AXLE SYSTEM

Drive system	4-wheel drive
Front and rear axle	Semi-floating type
Tires	23.5-25-16PR (L-3) (L-4) (L-5) 23.5R25 (L-3) (L-4) (L-5)
Reduction and differential gear	Spiral bevel gear, limited slip, single stage reduction
Final reduction gear	Inboard mounted, internal planetary gear
Oscillation angle	±12°

BRAKE SYSTEM

Service brakes	4-wheel, wet multiple disc brake. Controlled by full hydraulic system. Dual circuit.
Parking/Emergency brake	Spring-applied, oil pressure-released. Located on driveline.

