



# EVERY POWER.

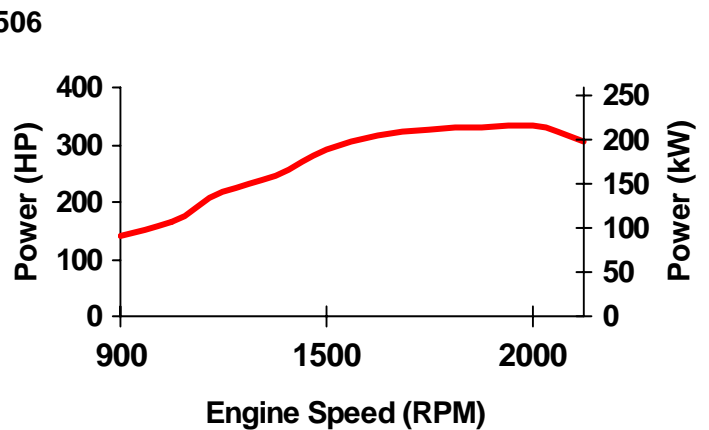
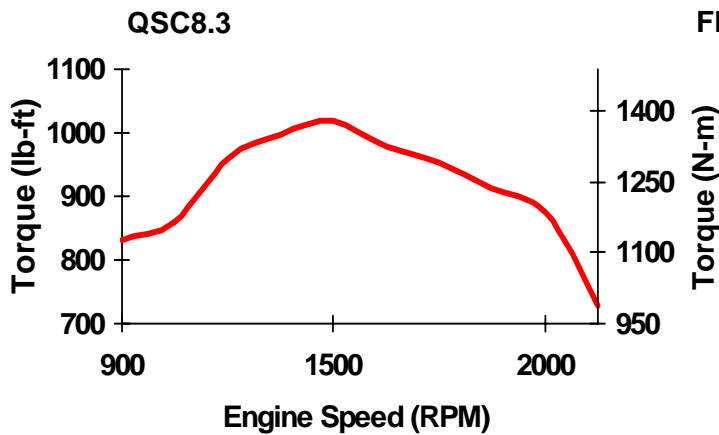
## QSC8.3

### QSC8.3 Ratings

ENGINE MODEL	ADVERTISED HORSEPOWER	PEAK TORQUE	ASPIRATION
QSC8.3	305 HP @ 2200 RPM	1020 LB-FT @ 1500 RPM	Turbocharged / Charge Air Cooler
QSC8.3	290 HP @ 2200 RPM	940 LB-FT @ 1500 RPM	Turbocharged / Charge Air Cooler
QSC8.3	250 HP @ 2200 RPM	830 LB-FT @ 1500 RPM	Turbocharged / Charge Air Cooler
QSC8.3	230 HP @ 2200 RPM	800 LB-FT @ 1500 RPM	Turbocharged / Charge Air Cooler

ADDITIONAL RATINGS ARE AVAILABLE. CHECK WITH YOUR CUMMINS DISTRIBUTOR.

Emission Certification: U.S. EPA Tier 3, CARB Tier 3, EU Stage IIIA



### Specifications

Advertised Horsepower		230 -305 HP	172 - 227 kW	
Peak Torque		800 -1020 LB-FT	1085 - 1383 NM	
Number of Cylinders		6		
Displacement		506 cu. in	8.3 Liters	
Bore and Stroke		4.49 in. x 5.31 in.	114 mm x 135 mm	
Aspiration		Turbocharged and Charge Air Cooled		
Oil System Capacity		20 U.S. Quarts	18.9 Liters	
Power Unit Weight (Dry)	Open	2380 lbs	1080 kg	
	Enclosed	2755 lbs	1250 kg	
Total Cooling System Capacity		34 U.S. Quarts	32.2 Liters	
Power Unit Size: Open	Length	73.00 in.	1962 mm	
		Width	41.32 in.	1050 mm
		Height	82.26 in.	2089 mm
	Enclosed	Length	64.75 in.	1645 mm
		Width	41.32 in.	1050 mm
		Height	81.03 in.	2058 mm

Curves shown above represent gross engine performance capabilities obtained and corrected in accordance with SAE J1995 conditions of 29.81 in Hg (100 kPa) barometric pressure [300ft (91m) altitude] 77 deg F (25 deg C) inlet air temperature, and 0.30 in Hg (1kPa) water vapor pressure with No. 2 diesel fuel.

All data is based on the engine operating with fuel system, water pump, and 15 in H<sub>2</sub>O (3.733 kPa) inlet air restriction with 6 in. (152 mm) inner diameter, and with 3 in Hg (10 kPa) exhaust restriction with 4 in (102 mm) inner diameter; not included are alternator, fan, optional equipment and driven components.

The engine may be operated up to 8,000 ft (2,438 m) altitude before electronic derate is applied.

## CUMMINS POWER PRODUCTS

# KEY FEATURES

# QSC8.3

**Wastegated HX40 Turbocharger** Custom-designed for heavy-duty performance, with maximum power and torque at low rpm, no overboost at high rpm.

**Full-Authority Electronic Controls** Optimized engine operation, diagnostics, prognostics and more. Industry standard datalinks.

**Parent Bore Cylinder Block** Structurally advanced design handles high pressures with greater durability.

**Quiet operation** makes the C Series engine suitable in many environments.

**Air Cleaner** Heavy duty industrial air cleaners with aluminized tubing. Safety elements included within the air cleaners and restriction indicators available.

**Baserail Mounting** Made of heavy duty formed C channel. All metal components are powder coated. Passes a 1000 hours salt water test.

**Cooling System** Heavy duty radiator assembly with jacket water and charge air cooler incorporated within assembly. Sucker or blower fan arrangements available. Aluminized charge air cooler tubes and painted water tubes. Radiator shroud, fan and belt guarding included. Radiator is isolated.

**Instrument Panel** Operates on 12 or 24 volt using the Murphy Powerview Module. J1939 communication with a 9 pin diagnostic connection. Shutdown protection provided through the ECM. Isolated inner panel within an outer protective lockable box. Available on right or left hand side of unit. Nema panels also available.

**Clutches** Over center clutches available depending on application. Provided primarily by Twin Disc.

**Enclosure** Fully enclosed power unit available. Enclosure housings uses 12-gauge steel. All components are powder-coated, which increases chip resistance. Passes a 1,000-hour salt spray tests. Components are bolted, not welded, so they resist mounting distortion and are easier to service. Removable side doors for easy engine serviceability.

**Exhaust** Heavy duty industrial muffler provided.

**Cummins Industrial Warranty** Coverage for two years or 2000 hours of operation, whichever occurs first, from the date of delivery of the power unit to the first user, or from the date the unit is first leased, rented or loaned, or when the power unit has been operated for 50 hours, whichever comes first. If the 2000 hour limit is exceeded during the first year, coverage continues until the end of the first year.

## CUMMINS POWER PRODUCTS

21810 Clessie Court  
New Hudson, Michigan 48165  
Phone: 248-573-1600  
Fax: 248-573-4014  
Internet: [cpp.cummins.com](http://cpp.cummins.com)

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Available Options	Standard	Optional
Air Cleaner 25 g/cfm w / Safety Element - Open Rear Mount	■	
Air Cleaner 25 g/cfm w / Safety Element - Enclosed Top Mount	■	
Air Cleaner 25 g/cfm w / Safety Element - Enclosed Rear Mount		■
Clutch Support Plate		■
Tw in Disc Clutch		■
Decal Option / parts Manual	■	
Engine Harness Option	■	
Linear Throttle Control		■
Full Enclosure	■	
Electrical Wiring 12 Volt	■	
Electrical Wiring 24 Volt		■
Heater Starting Aid (grid)		■
Instrument panel mount - Open	■	
Instrument Panel - Pow erview ; Includes Murphy Pow erview w / oil pressure, w ater temp., voltmeter, and tachometer gauges, key sw itch,run/idle sw itch, 9 pin J1939 diagnostic port, and isolated panel w ithin enclosed lockable	■	
Instrument Panel - Sw itch Gauges; Includes Murphy shutdow n, electro-mechanical oil pressure and w ater temp., voltmeter, and tachometer / hourmeter gauges, key sw itch, isolated panel w ithin enclosed lockable box.		■
Instrument Panel - Nema Enclosure		■
12 Foot Extension Harness		■
24 Foot Extension Harness		■
Baserail Engine Sub Base non-isolated	■	
Baserail Engine Sub Base - Extended for Clutch Support		■
Packing / Shipping Skid	■	
Cooling System - Sucker; Includes Radiator, fan, shroud, positive deaeration tank, guarding, tubes.	■	
Cooling System - Blow er; Includes radiator, fan, shroud, positive deaeration tank, guarding, tubes.		■
Restriction Indicator - Air Cleaner		■
Stone Guard - Grill Type	■	
Coolant Level Safety Shutdow n	■	
Exhaust System	■	