



# EVERY POWER.

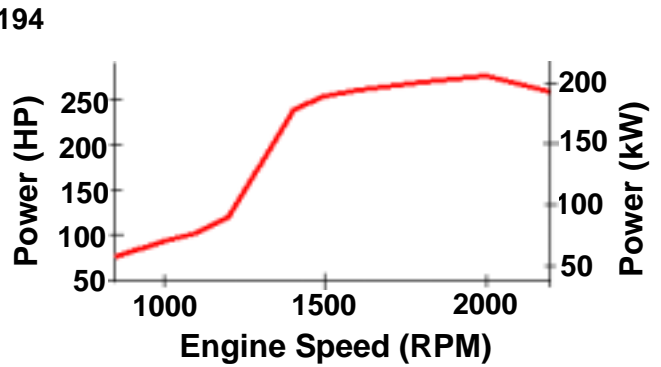
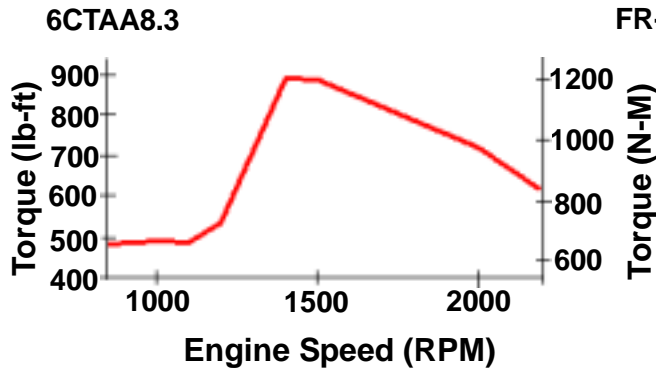
## 6CTAA8.3

### 6CTAA8.3 Ratings

ENGINE MODEL	ADVERTISED HORSEPOWER	PEAK TORQUE	Aspiration
6CTAA8.3	260 HP @ 2200 RPM	889 LB-FT @ 1500 RPM	Turbocharged / Charge Air Cooler
6CTAA8.3	240 HP @ 2200 RPM	824 LB-FT @ 1500 RPM	Turbocharged / Charge Air Cooler
6CTAA8.3	215 HP @ 2200 RPM	719 LB-FT @ 1500 RPM	Turbocharged / Charge Air Cooler

ADDITIONAL RATINGS ARE AVAILABLE. CHECK WITH YOUR CUMMINS DISTRIBUTOR.

Emission Certification: U.S. EPA Tier 2, CARB Tier 2, EU Stage II, JMLIT Step 2



### Specifications

Advertised Horsepower		215-260 BHP	160-194 kW
Peak Torque		719-889 LB-FT	1975-1205 NM
Number of Cylinders		6	
Displacement		505 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	18.93 Liters
Power Unit Weight (Dry)	Open	2325 lbs	1055 Kg
	Enclosed	2700 lbs	1225 Kg
Total Cooling System Capacity		39.5 U.S. Quarts	37.0 Liters
Power Unit Size:	Open	Length	73.00 in.
		Width	49.12 in.
		Height	82.31 in.
	Enclosed	Length	60.50 in.
		Width	41.32 in.
		Height	78.87 in.

Curves shown above represent gross engine performance capabilities obtained and corrected in accordance with SAE J1995 conditions of 29.61 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 10 in H<sub>2</sub>O (254 mm H<sub>2</sub>O) inlet air restriction with 4.92 (125 mm) inner diameter, and with 2 in Hg (51 mm Hg) exhaust restriction with 3.94 in (100 mm) inner diameter; not included are alternator, fan, optional equipment and driven components. Coolant flows and heat rejection data based on coolants as 50% ethylene glycol / 50% water.

The engine may be operated without changing the fuel setting up to 2300 m (7546ft.) altitude and 100 deg F (38 deg C). For sustained operation at high altitudes, the fuel rate of the engine should be adjusted to limit performance by 4% per 300 m (1000 ft.) above 2300m (7546ft.) altitude and not to exceed 10000 ft. (3048 m).

**CUMMINS POWER PRODUCTS**

# KEY FEATURES

# 6CTAA8.3

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

**Forged Steel Crankshaft** Superior strength for longer engine life.

**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 mechanical and electro-mechanical gauges. Shutdown protection provided through a Murphy shutdown protection relay. 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)

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 - 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 - Hourmeter is the only gauge in panel.		■
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	■	
Exhaust System	■	