



EVERY POWER.

B3.9TAA

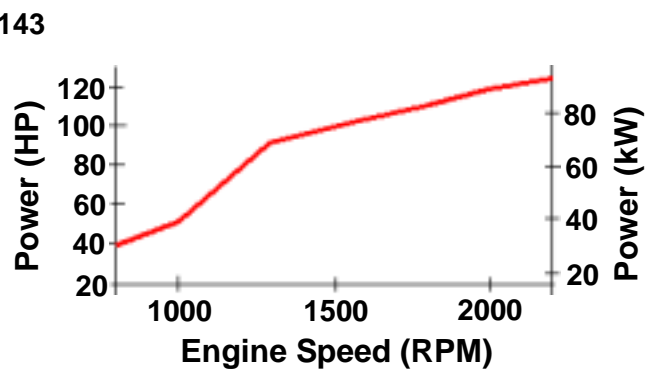
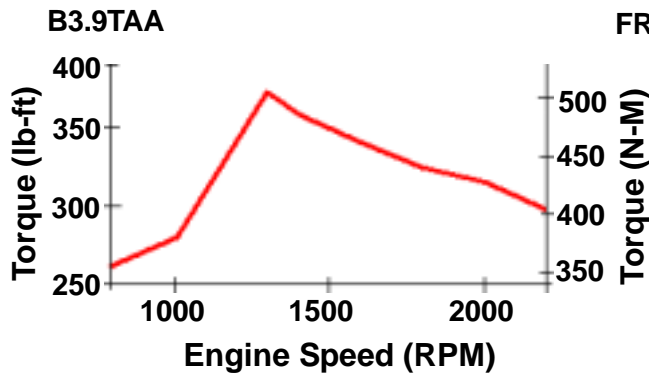


B3.9TAA Ratings

| ENGINE MODEL | ADVERTISED HORSEPOWER | PEAK TORQUE | Aspiration |
|--------------|-----------------------|----------------------|----------------------------------|
| B3.9TAA | 125 HP @ 2200 RPM | 373 LB-FT @ 1300 RPM | Turbocharged / Charge Air Cooler |
| B3.9TAA | 110 HP @ 2500 RPM | 346 LB-FT @ 1500 RPM | Turbocharged / Charge Air Cooler |
| B3.9TAA | 110 HP @ 2200 RPM | 365 LB-FT @ 1300 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



Specifications

| | | | |
|-------------------------------|----------|------------------------------------|-----------------|
| Advertised Horsepower | | 110-125 BHP | 82-93 kW |
| Peak Torque | | 346-373 LB-FT | 454-481 NM |
| Number of Cylinders | | 4 | |
| Displacement | | 238 cu in | 3.9 liters |
| Bore and Stroke | | 4.02 in. x 4.72 in. | 102 mm x 120 mm |
| Aspiration | | Turbocharged and Charge Air Cooled | |
| Oil System Capacity | | 10 U.S. Quarts | 9.4 Liters |
| Power Unit Weight (Dry) | Open | 1168 lbs | 530 Kg |
| | Enclosed | 1310 lbs | 594 Kg |
| Total Cooling System Capacity | | 22.04 U.S. Quarts | 20.86 Liters |
| Power Unit Size: | Open | Length | 54.74 in. |
| | | Width | 29.25 in. |
| | | Height | 65.68 in. |
| | Enclosed | Length | 45.50 in. |
| | | Width | 31.19 in. |
| | | Height | 61.94 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 9.84 in H₂O (250 mm H₂O) inlet air restriction with 3.94 in (100 mm) inner diameter, and with 1.97 in Hg (50 mm Hg) exhaust restriction with 2.95 in (75 mm) inner diameter; not included are alternator, fan, optional equipment and driven components.

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.

CUMMINS POWER PRODUCTS

KEY FEATURES

B3.9TAA

Holset Turbochargers Wastegated designs optimize operations for improved response across the torque curves.

Forged Steel Crankshaft Superior strength for longer engine life.

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

Quiet operation makes the B 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

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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 | ■ | |
| 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 Isolated | | ■ |
| Baserail Engine Sub Base - Special Isolated Side Load | | ■ |
| 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 | ■ | |
| Stone Guard - Serpentine Type | | ■ |
| Exhaust System | ■ | |