

C9 Defence Engine

261-336 kW (350-450 hp)

1491-1850 Nm (1100-1364 lb-ft)



Shown with optional equipment

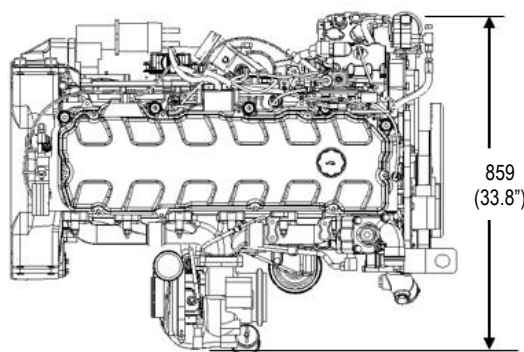
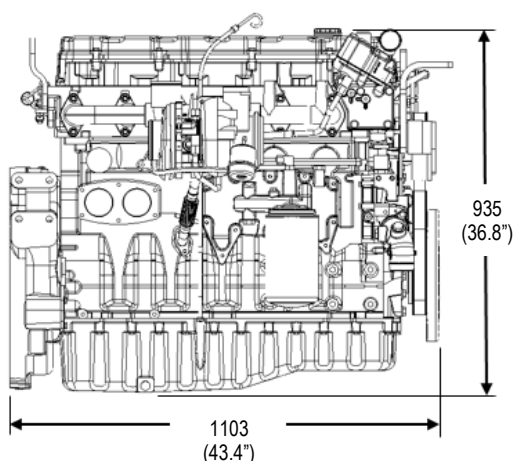
STANDARD EQUIPMENT

Air inlet manifold heater
Cooling: belt-driven water pump and oil cooler
Crankcase breather
Electronic Control Module (ECM)
Electronic Data Link, SAE/ATA, SAE/J1939
Fuel: spin-on secondary filter, transfer pump
Governor: full-range, electronically controlled HEUI™ Fuel System
Lifting eyes
Lubrication: gear-driven pump, front or rear sump pan, full flow spin-on filter, oil filter, dipstick (oil level gauge)
SAE No.1 or No.2 flywheel housing
Turbocharger
Vibration damper

RATING DEFINITIONS AND CONDITIONS

Performance is based upon SAE J1995 standard conditions of 100 kPa (29.61 in Hg) and 25°C (77°F)

DIMENSIONS



CAT® ENGINE SPECIFICATIONS

In-line 6-Cylinder, 4-Stroke-Cycle Diesel

Bore 112 mm (4.41 in)

Stroke 149 mm (5.87 in)

Displacement 8.8 L (537 in³)

Aspiration Turbocharged After-cooled

Compression Ratio 17.0:1

Combustion System Direct Injection

Rotation (from flywheel end) Anti-clockwise

Cooling System¹ 13.2 L (3.5 gal US)

Lubrication Oil System (refill) 29.0 L (7.7 gal US)

Engine Weight, Net Dry (approximate) with:

Standard equipment 754 kg (1662 lbs)

Maximum engine tilt angle² of operation:

Longitudinal 35° (70%)

Transverse 35° (70%)

¹ Engine only. Capacity will vary with radiator size and coolant ancillaries

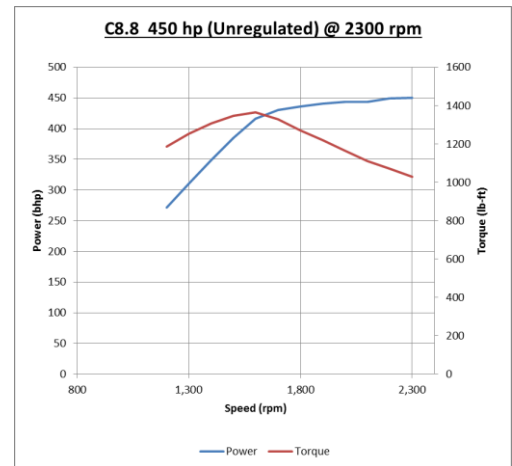
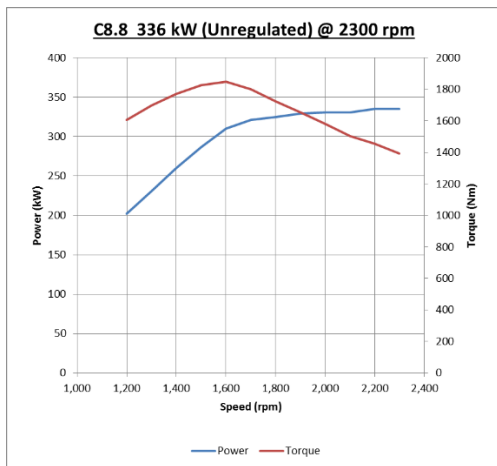
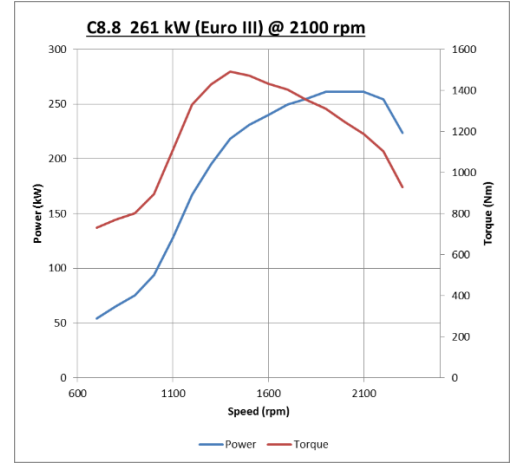
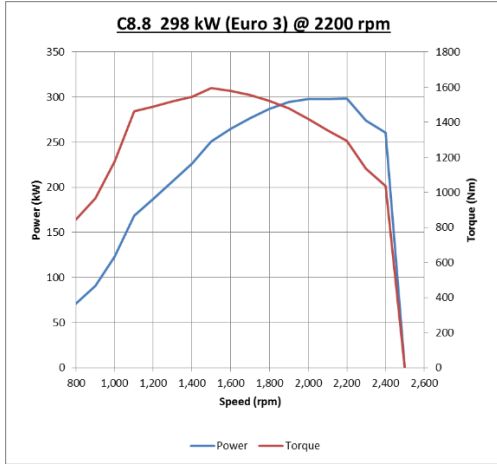
² Dependent upon type of oil sump

ACCESSORY EQUIPMENT

Air compressor - gear driven; 374-467 L/min (13.2-16.5 cfm) with drive-through (1:1) capability, SAE A
Air conditioner compressor mounting
Air inlet elbow
Air, oil or water cooled electrical generator with belt or direct drive options
Dual rear PTO SAE No. 1 flywheel housing
Front engine support
Front PTO adapter
Fuel priming pump
Jacket water heater
Single or dual starter motor (24V)
Transmission coupling
Turbocharger interface connections
Wide range of hydraulic pumps; fixed and variable displacement, with belt or direct drive options

PERFORMANCE

Power @ Rated Speed (kW)	Power @ Rated Speed (hp)	Torque @ Rated Speed (Nm)	Torque @ Rated Speed (lb.ft)	Rated Speed (rpm)	Peak Torque (Nm)	Peak Torque (lb.ft)	Peak Torque Speed (rpm)	Emissions
261	350	1186	875	2100	1491	1100	1400	Euro III
298	400	1295	955	2200	1595	1176	1500	Euro III
336	450	1393	1027	2300	1850	1364	1500	Unregulated



ELECTRONIC FEATURES

SAE J1939 compatible
ECM storage of operational, maintenance, diagnostics codes and data
Electronic self-diagnostics
Customer selectable, re-programmable operational parameters:

- 2-speed fast idle capabilities
- Adjustable low idle rpm
- Cruise control
- Engine protection system; selectable warning, derate, or shutdown
- Fleet information software capability
- Idle shutdown timer and override

- Maintenance monitor [kilometres (miles) or hours]
- Vehicle speed [km/h (mph)] limiting and protection

Programmable Power Take-Off (PTO) functions:

- Adjustable minimum and maximum engine rpm speed
- Adjustable ramp rate up or down between PTO and speed(s)
- Adjustable rpm "bump" intervals
- Adjustable speed control [km/h (mph)] of that vehicle while in PTO mode
- Limit engine torque to driven equipment

Cold weather start-up strategy and electronic idle control functions
Compatible with Caterpillar Electronic Technician (ET)

FEATURES

Unmatched Product Support Offered Through Worldwide Caterpillar Dealer Network

Design and development consultancy service available for
bespoke fully integrated powerpack solutions
Global presence; in excess of 1,800 approved Dealer outlets

Caterpillar factory-trained dealer technicians service every
aspect of your engine
99.7% of parts orders filled within 24 hours worldwide
Caterpillar parts and labour warranty

For more information contact: cat_defence_products@cat.com Or visit: www.catdfp.com

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