



EVERY CHALLENGE.

QSM



FOR ZONE 2 HAZARDOUS ENVIRONMENTS

QSM For Zone 2 Oil And Gas Applications.

Your business depends on people and equipment that can get the job done. Every day.

The Cummins QSM engine is designed for use in the hostile environments commonly found offshore and in other potentially hazardous environments. From the line of highly reliable and durable QSM industrial engines, the QSM engine was developed by Cummins for long-lasting performance on either land or sea. And with the addition of the available Zone 2 explosion protection equipment, the engine system is certified to the Zone 2 hazardous location requirements detailed in the ATEX directive 94/9/EC.

Features And Benefits.

The QSM Quantum System state-of-the-art electronics provides superior fuel economy and uncompromising reliability, with engine protection and other programmable features – while meeting all applicable emissions standards. Cummins support makes this engine the right choice for your operation every time. Components include:

Engine – Water-cooled turbo housing and exhaust manifold keep engine surface temperature below 200°C (392°F).

High-Capacity ECM – New space-efficient Electronic Control Module packs ten times more memory and processing power.

Cooling System – Two-pump, two-loop cooling system for optimal engine performance and ease of installation.

Fuel System – Full-authority Quantum fuel system optimizes combustion for increased engine performance and fuel-efficient operation.

Exhaust System – Water-cooled exhaust gas heat exchanger available* as well as intake and exhaust spark arrestors.

Air Inlet – Automatic air inlet shutdown available* to shut down the engine in the presence of a flammable gas mixture.

Emission Certification – EPA/CARB Tier 3, Marpol Tier 3.

Control System – Electronic components certified to ATEX Directive 94/9/EC Group II, Category 3G requirements.

Corrosion Protection – Uses the Cummins Marine Corrosion Protection package including e-coated brackets, pre- and post-assembly block and head priming and stainless steel plugs.

The Venturi™ Oil Filter and Lube System – 10-micron LF 9001 filter from Fleetguard combines with a new lubrication system. Can double oil change intervals – up to 700 hours in some applications.

Warranty – Cummins one-year warranty, unlimited hours.

*Zone 2 exhaust upfit kit available from Pyroban Ltd.

Optional Equipment.

- Zone 2 exhaust cooler and redundant safeties available
- ZF, Allison and Twin Disc transmission adaptations
- SAE A or B hydraulic drive flange
- +12 or 24-v electrical system

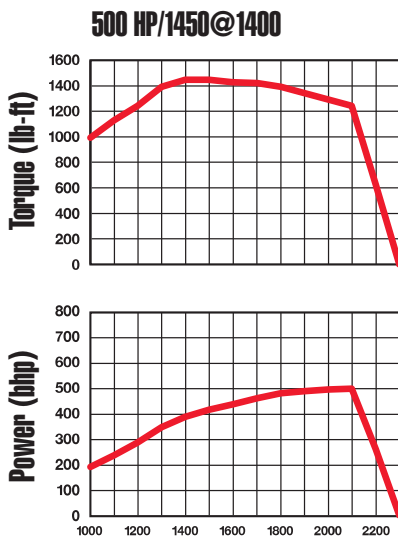
Specifications

ENGINE TYPE	IN-LINE, 6 CYLINDER	
DISPLACEMENT	661 CU IN	10.8 LITERS
ADVERTISED HORSEPOWER	500 BHP	373 kW
PEAK TORQUE	1450 LB-FT @ 1400 RPM	1966 N•M
BORE AND STROKE	4.92 IN X 5.79 IN	125 MM X 147 MM
ASPIRATION	TURBOCHARGED AND AFTERCOOLED	
OIL SYSTEM CAPACITY	36 U.S. QT	34 LITERS
COOLANT CAPACITY	31.7 U.S. QT	30 LITERS
LENGTH	50.9 IN	1293 MM
WIDTH	38.5 IN	978 MM
HEIGHT	38.2 IN	970 MM
WEIGHT (DRY)	2,605 LB	1,182 KG

Ratings

ENGINE MODEL	RATED POWER		PEAK TORQUE	
	HP	RPM	LB-FT	RPM
QSM (Zone 2)	500	@ 2100	1450	@ 1400

Rating data shown represents gross engine performance capabilities obtained and corrected in accordance with SAE J1349 conditions. Derating may be required due to altitude or temperature. All data is based on the engine operating with fuel system, water pump, lube pump, air cleaner and muffler. Materials and specifications are subject to change without notice.



Cummins Inc.
Box 3005
Columbus, IN 47202-3005
U.S.A.

Phone: 1-800-DIESELS (1-800-343-7357)
Fax: 1-800-232-6393
Internet: everytime.cummins.com

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