QSL9
QUANTUM SERIES ENGINE

Features
Fuel System: Cummins XPI fuel System; handed spin-on Fleetguard fuel filter
Lubrication System: Handed spin-on Fleetguard lube filter
Electrical System: 12-volt and 24-volt systems available
Coolant System: Sea water heat exchanger cooling system; Keel cooled system available
Emissions: EPA Tier 3, IMOII, and RCD Certified

Engine Overview
• Dependability and long life proven through thousands of hours of reliable commercial and trawler operation
• Clean, quiet operation with virtually no startup smoke from the high-pressure common-rail fuel system
• Excellent fuel economy for long range cruising
• Peace of mind delivered by the Cummins Captain’s Briefing and global service network

Engine Specifications
Configuration In-line 6-cylinder, 4-stroke diesel
Bore & Stroke 114 mm x 145 mm (4.49 in x 5.71 in)
Displacement 8.9 L (542 in³)
Aspiration Turbocharged / Aftercooled
Rotation Counterclockwise facing flywheel

Engine Dimensions

<table>
<thead>
<tr>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Weight (Dry)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>in</td>
<td>mm</td>
<td>in</td>
</tr>
<tr>
<td>1174</td>
<td>46.2</td>
<td>642</td>
<td>33.2</td>
</tr>
</tbody>
</table>

*Does not include exhaust connection. Weights vary by rating.

Power Ratings

<table>
<thead>
<tr>
<th>Rating</th>
<th>kW</th>
<th>MHP</th>
<th>BHP</th>
<th>Rated RPM</th>
<th>Max Torque N-m</th>
<th>Max Torque RPM</th>
<th>Emissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>H0/MCD</td>
<td>302</td>
<td>410</td>
<td>405</td>
<td>2100</td>
<td>1575</td>
<td>1400</td>
<td>EPA Tier 3, IMO II, RCD, EU Stage IIIa</td>
</tr>
<tr>
<td>HD</td>
<td>246</td>
<td>335</td>
<td>330</td>
<td>1800</td>
<td>1575</td>
<td>1400</td>
<td></td>
</tr>
<tr>
<td>CD</td>
<td>213</td>
<td>290</td>
<td>285</td>
<td>1800</td>
<td>1443</td>
<td>1300</td>
<td></td>
</tr>
<tr>
<td>H0/MCD</td>
<td>298</td>
<td>405</td>
<td>400</td>
<td>2100</td>
<td>1619</td>
<td>1400</td>
<td></td>
</tr>
<tr>
<td>H0/HD</td>
<td>243</td>
<td>330</td>
<td>326</td>
<td>1800</td>
<td>1553</td>
<td>1400</td>
<td></td>
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<tr>
<td>H0/CD</td>
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<td>285</td>
<td>281</td>
<td>1800</td>
<td>1332</td>
<td>1400</td>
<td></td>
</tr>
</tbody>
</table>

Ratings and specifications subject to change without notice. Not responsible for typographical errors.
Fuel consumption data represents performance along a 2.7 fixed pitch propeller curve (for HO, ID, MCD, 3.0 for HD and CON ratings). Fuel consumption is based on fuel of 35° API gravity at 16°C (60°F) having an LHV of 42,780 KJ/KG (18,390 BTU/lb) when used at 29°C (85°F) and weighing 838.9 g/liter (7.001 lb/US gal). Observed horsepower is certified within ±5% of rated horsepower. Consult your local Cummins professional for further information.

Available Accessories

- **Air Intake System:** Light duty or servicable type air cleaner
- **Engine Controls:** Digital Throttle and Shift; Electronic Throttle and Shift (ETS) and optional potentiometer for mechanical controls
- **Instrumentation:** SmartCraft® 2.5 digital displays and/or analog gauges provide data on engine speed, oil pressure, engine load and more
- **Vessel System Integration:** SmartCraft® 2.5 monitors fluid level, vessel range, depth, vessel speed, rudder position, temperatures and more
- **Accessory Drive Pulley:** Single and dual groove for FPTO
- **Hydraulic pump drive:** SAE A or SAE B flange
- **Wet and Dry exhaust connections**

**Ratings Definitions**

- **Continuous (CD):** Intended for use in applications requiring uninterrupted and unlimited service at full power.
- **Heavy Duty (HD):** Intended for nearly continuous use in variable load applications, where full power is limited to eight hours out of every ten hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 5000 hours per year.
- **Medium Continuous (MD):** Intended for moderate use in variable load applications, where full power is limited to six hours out of every twelve hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 3000 hours per year.
- **Intermittent (ID):** Intended for intermittent use in variable load applications, where full power is limited to two hours out of every eight hours of operation. Also, reduced power operation must be at or below cruise rpm, which is 200 rpm below the maximum rated speed. This rating is for applications operating less than 1500 hours per year.
- **High Output (HO):** Intended for infrequent use in variable load applications, where full power is limited to one hour out of every eight hours of operation. Also, reduced power operation must be at or below cruise rpm (rpm). Cruise speed (rpm) is dependent on the engine rated speed (rpm). Refer to Table 1 below.

For applications operating less than 500 hours per year. Engines with this rating are intended for powering recreational/pleasure use vessels only. Commercial use is defined as any work or employment related use of the product, or any use of the product which generates income, for any part of the warranty period, even if the product is only occasionally used for such purposes.

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