



EVERY JOB.

QSL



FOR OFF-HIGHWAY APPLICATIONS

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There is no substitute for power when your equipment needs it. That's why Cummins QSL offers ratings from 280-365 hp and a torque rise of up to 50%. QSL engines combine advanced in-cylinder combustion technology and a High-Pressure Common-Rail (HPCR) fuel system to increase power and reduce emissions. At the same time, the QSL delivers better cold starting and runs 50% quieter for increased operator comfort. Every day.

QSL engines currently meet Tier 2/Stage II emissions standards and – in January 2005 – will meet every Tier 3/Stage IIIA emissions standard without cooled Exhaust Gas Recirculation (EGR), aftertreatment or added hardware. The advanced QSL engine platform will be carried forward to Tier 4/Stage IV through 2015.

Performance.

Cummins QSL engines are built to deliver heavy-duty performance in every piece of machinery. Full-authority electronic engine controls combine with the high-pressure fuel system, 24-valve design and centered injectors for one of the highest power-to-weight ratios in its class.

Versatility.

Its ECM (Electronic Control Module) is totally programmable, so you can specify performance parameters to match a wide range of operating conditions and load factors. For every job.



Ratings

ENGINE MODEL	ADVERTISED HORSEPOWER	PEAK HORSEPOWER	PEAK TORQUE
QSL 365*	365 @ 2100 RPM	385 @ 1900 RPM	1200 LB-FT @ 1500 RPM
QSL 350*	350 @ 2100 RPM	370 @ 1900 RPM	1133 LB-FT @ 1400 RPM
QSL 340*	340 @ 2200 RPM	350 @ 2000 RPM	1133 LB-FT @ 1400 RPM
QSL 340	340 @ 1800 RPM	340 @ 1800 RPM	1133 LB-FT @ 1400 RPM
QSL 330	330 @ 2100 RPM	350 @ 1900 RPM	1133 LB-FT @ 1400 RPM
QSL 330	330 @ 1800 RPM	330 @ 1800 RPM	1075 LB-FT @ 1400 RPM
QSL 300	300 @ 2100 RPM	325 @ 1900 RPM	1075 LB-FT @ 1400 RPM
QSL 300**	300 @ 1800 RPM	300 @ 1800 RPM	1000 LB-FT @ 1400 RPM
QSL 280	280 @ 2100 RPM	305 @ 1900 RPM	1050 LB-FT @ 1400 RPM
QSL 280**	280 @ 1800 RPM	280 @ 1800 RPM	950 LB-FT @ 1400 RPM

*Indicates a restricted rating.

**Indicates continuous/water management ratings.

All ratings are intermittent unless otherwise noted. Additional ratings may be available. Check with your Cummins distributor or dealer.

Specifications

ENGINE TYPE	IN-LINE, 6-CYLINDER	
DISPLACEMENT	540 CU IN	8.85 LITERS
ADVERTISED HORSEPOWER	280-365 HP	209-272 KW
PEAK TORQUE	950-1200 LB-FT	1288-1627 N•M
BORE AND STROKE	4.49 IN X 5.69 IN	114 MM X 144.5 MM
ASPIRATION	CHARGE AIR COOLED	
OIL SYSTEM CAPACITY	24 U.S. QT	22.7 LITERS
COOLANT CAPACITY	11.7 U.S. QT	11.1 LITERS
LENGTH	44.4 IN	1128 MM
WIDTH	27.7 IN	704 MM
HEIGHT	45.9 IN	1166 MM
WEIGHT (WET)	1,627 LB	738 KG

Features And Benefits.

Standard features on the QSL for off-highway applications include:

- High-Pressure Common-Rail Fuel System (HPCR) – Delivers high injection pressures – independent of engine speeds – for improved throttle response, low-end torque and fuel economy.
- Full-Authority Electronic Controls – Provide seamless integration with other components to optimize engine operation and deliver critical information.
- Integrated Block Design – Fluid circuits are integrated, replacing hoses and eliminating potential leaks. High-capacity cooling and lube systems lower temperatures, increasing engine life.
- Wastegated HX40 Turbocharger – Wastegated design optimizes operation across the torque curve with improved response.
- 24-Valve Cylinder Head – Four valves per cylinder for increased power with faster response at every rpm.
- Low-Tension Belt Arrangement – Provides maximum power output through the accessory drive.
- Integrated Cold-Start Aid – For improved low-temperature start-ups.
- Heavy-Duty Roller Followers – Cam roller followers give the QSL superior durability and cam life.

Options.

- Extended service filters let you go beyond the 500-hour standard oil change interval.
- Multiple accessory drive options.
- Rear Engine Power Take-Off (REPTO).
- A compression brake, the structurally reinforced QSL engine block and heavy-duty roller followers give you the capacity you need.



Base Warranty.

QSL engines come with a full 2-year/2,000-hour warranty that covers all Cummins branded components, including electrics such as starters and alternators. Major components coverage continues into the third year, up to 10,000 hours of operation from the time your QSL engine goes in service.

Three simple steps explain everything you need to know:

Step One: Full coverage on all Cummins industrial engines and branded components with unlimited hours during the first year of operation. This includes Cummins branded electrics such as alternators, starters, etc.

Step Two: Full coverage is extended for the second year, up to 2,000 hours of operation. Total hours are cumulative from the time the engine goes in service.

Step Three: Major components coverage including block, crankshaft, camshaft and rods on all products for the third year or up to 10,000 hours of operation. Total hours are cumulative from the time the engine goes in service.

Encompass Protection Plans.

Unlike plans offered by other diesel manufacturers, Encompass gives you a choice of hourly or unlimited plans and options that include parts only, parts and labor, or parts, labor and travel coverage. Encompass protection plans are available for your QSL engine with your choice of up to five years of extended coverage with unlimited hours. Yearly plans with 7-year coverage for up to 6,000 hours of operation are available.

These plans cover all Cummins-manufactured components. Maintenance components are included through the end of the third year.

Encompass protection plans may be purchased up to six months after the in-service date of your engine. Ask your Cummins distributor for pricing. For details, see Bulletins 3624422, 3624423, 3624424 and 3624570.

A \$200 deductible applies per service visit after the expiration of the base warranty.

Maintenance Intervals.

QSL engines are designed to run up to 500 hours between scheduled maintenance stops, including oil, oil filter and fuel filter changes.

Cummins Advisor.

Getting every installation right – the first time – is what

Cummins Advisor is all about.

Advisor software builds a virtual model to make sure every system (air, intake, exhaust, cooling, etc.) is integrated for optimum performance. It takes into account everything from load factors to operating climates to duty cycles – then identifies systems or components that could negatively impact reliability – listing alternatives that deliver the performance you expect the first time – every time.



Cummins PowerMatch.

Cummins partners with OEM engineers to test and match the power of the QSL engine to specific equipment, terrain and weather conditions. We use our advanced electronics to shape power curves and ratings to match the jobs your equipment will be doing, taking into account the working environment, load factors and operating modes. Then we optimize the engine's performance with other vehicle components, using Advisor.

QuickServe® Online.

QuickServe Online (<http://quickservice.cummins.com>) gives you easy access to parts and service information. While there are over eight million engines and literally billions of part numbers indexed in the QuickServe Online database, you can find the information you need in seconds with our high-speed search function and your engine's serial number.



Cummins QuickServe.®

Cummins QuickServe is an entire system dedicated to performing fast, accurate maintenance and repair services – using quality Cummins and Cummins ReCon® parts – to minimize downtime and maximize productivity. Our distributors' service record is so reliable, we offer an exclusive QuickServe Guarantee* to customers in the majority of our industrial markets.

Cummins distributors guarantee that engine service performed in their shop with a standard repair time of four hours or less will be completed that same day – or you'll receive a \$75 credit toward future Cummins parts or service work.

If your equipment is down and you can't bring it to one of our locations, we'll come to yours. A Cummins QuickServe truck and certified service technician will be dispatched within four hours of your call, or you'll receive a \$75 credit toward future Cummins parts or service work.

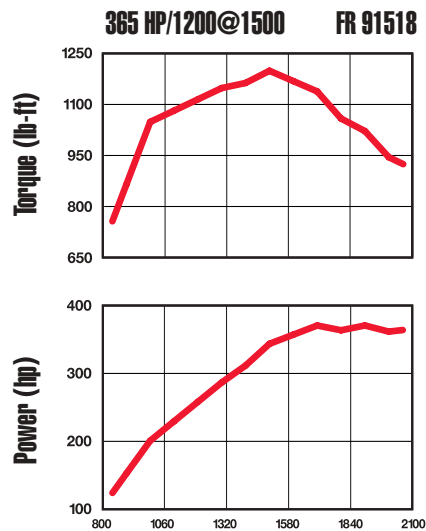
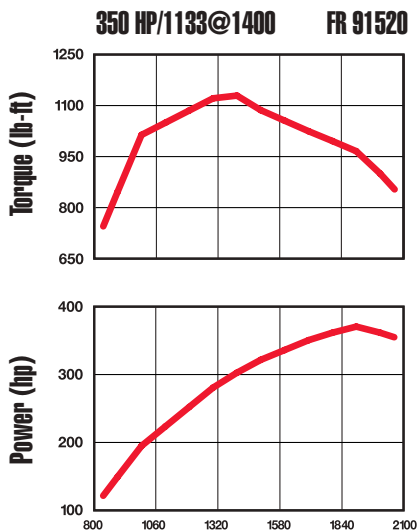
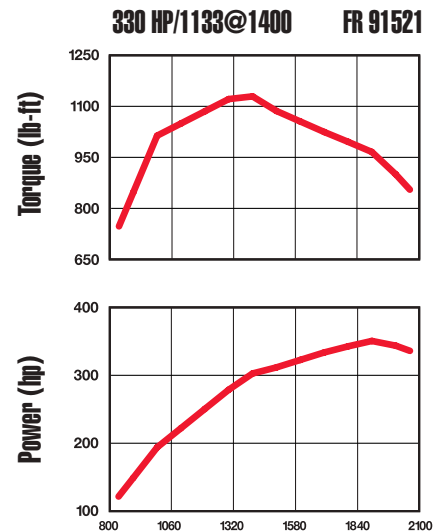
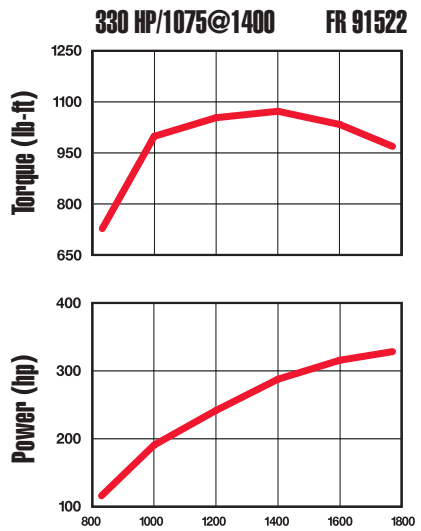
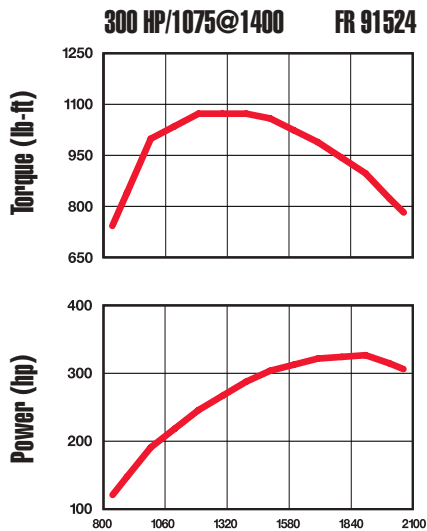
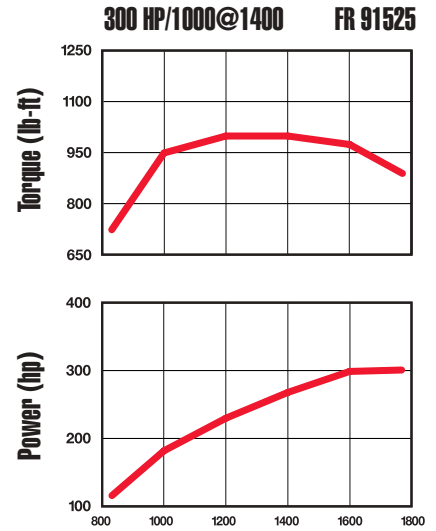
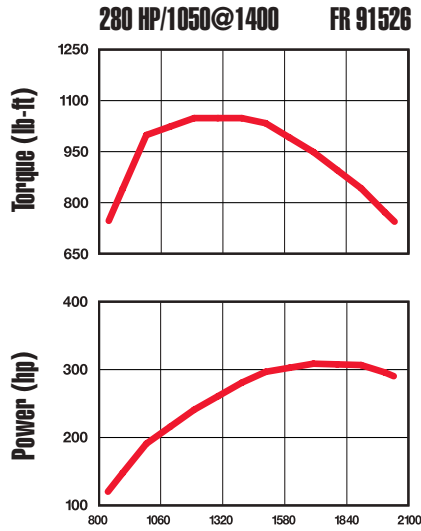
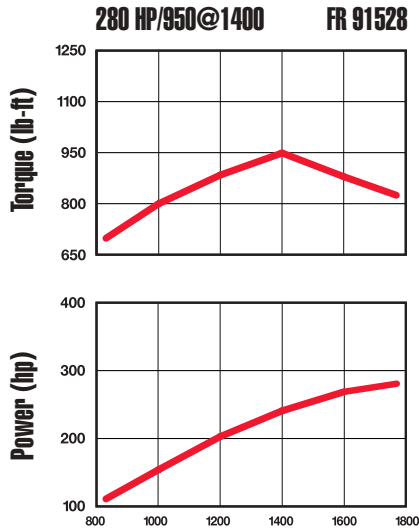
To schedule or request service, call your local Cummins distributor today. For additional details or to learn more about the QuickServe Guarantee, see our web site at www.everytime.cummins.com.

*\$75 credit applies only to service in the U.S. and Canada. The QuickServe Guarantee varies by country. Please contact your local Cummins distributor for details.

Every Question, Answered.

- Service Network – Cummins engines are backed by the strength of Cummins global network of over 5,500 service locations worldwide.
- Customer Assistance Center – For technical assistance, service locations and product literature, call 1-800-DIESELS (1-800-343-7357).
- Cummins PowerMaster – E-mail the experts for timely answers to Cummins-related questions at powermaster@cummins.com.
- Cummins Online Registration – Register all your Cummins engines quickly and easily at www.everytime.cummins.com to ensure quality parts and service for your engine.

TORQUE AND POWER CURVES.





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