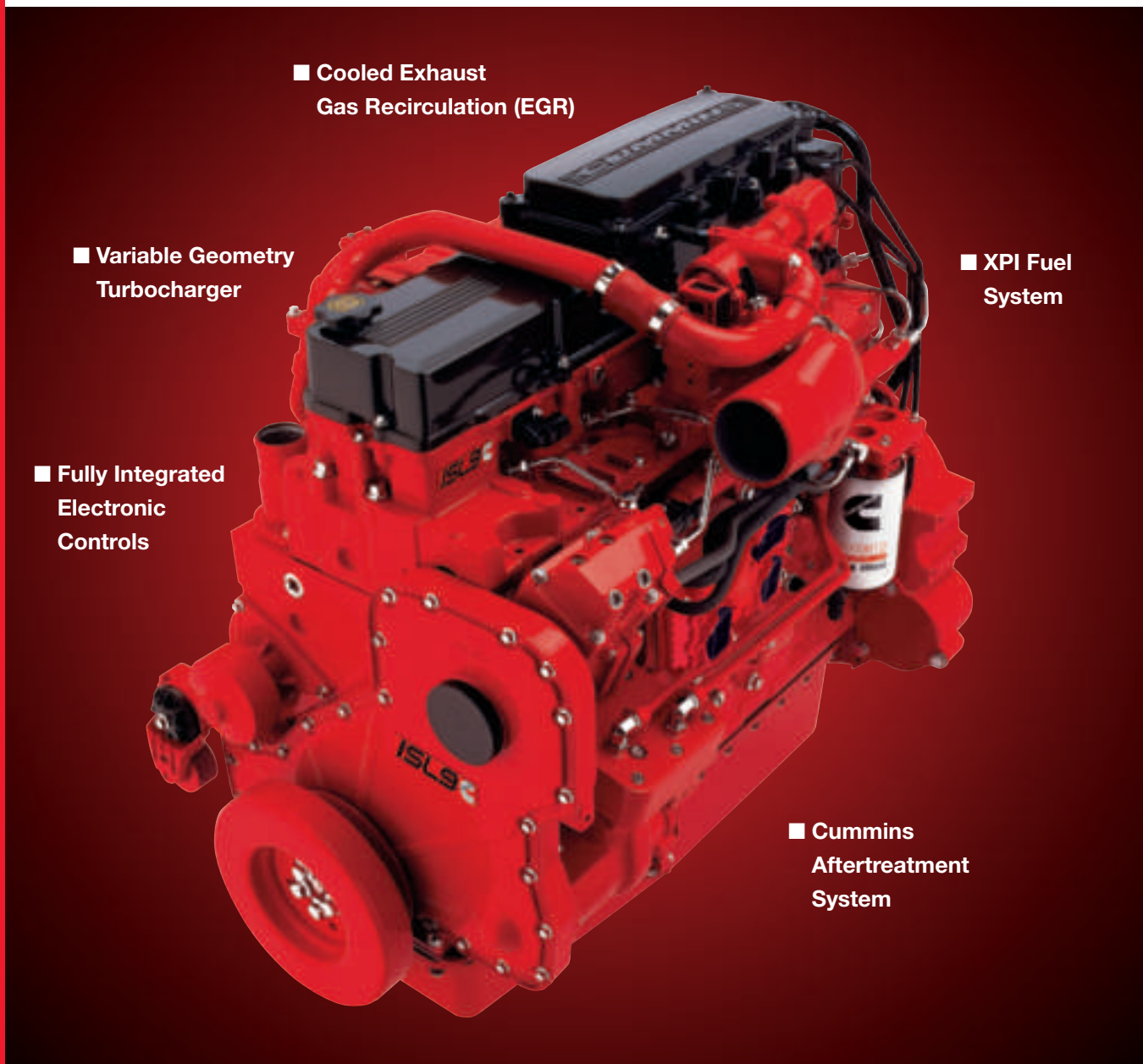
Better Every™ Call.

ISL9 For EPA 2010.
For Fire And Emergency Vehicle Applications.



Ready To Respond. Every™ Call. ISL9 For EPA 2010.

More of a good thing. That's what you get with the Cummins ISL9 EPA 2010 engine. You can expect the same high level of performance and reliability that ISL owners currently get, keeping you ready to respond, every call.

The ISL9 has one of the highest power-to-weight ratios in its class, with heavy-duty features like replaceable wet liners. It features the XPI fuel system – the same technology that's used on the ISX15. This, combined with an improved Electronic Control Module (ECM) and improved airflow, allows the ISL9 to run stronger and with greater responsiveness than ever before.

Adding proven Selective Catalytic Reduction (SCR) technology to our aftertreatment system with cooled EGR and the Cummins Particulate Filter results in an engine that delivers near-zero emissions without compromising the performance of your mid-size fire apparatus.

XPI Fuel System – The proven technology of the XPI common-rail fuel system delivers a precise quantity of fuel at ultra-high pressures. This, together with more robust electronic engine controls, enables multiple injection events per cycle. Flexibility in injection timing maximizes fuel economy and performance while decreasing exhaust emissions.

Heavy-Duty Design – Rugged features include replaceable wet liners, roller followers, by-pass oil filtration and targeted piston cooling for longer service in the toughest work environments.

VGT™ Turbocharger – The Cummins VGT Turbocharger is both simple and precise. Electric actuation allows infinite adjustment, providing the exact amount of boost necessary for superior response. The proven sliding-nozzle design has best-in-class reliability and durability.

Cooled EGR – This next-generation system lowers combustion temperatures for reduced emissions and optimized fuel economy.

Fully Integrated Electronic Controls – A single higher-capacity ECM controls everything from air intake to exhaust aftertreatment for peak performance and near-zero emissions.

Cummins is a pioneer in product improvement. Thus, specifications may change without notice. Illustrations may include optional equipment.

Cummins Aftertreatment System – The proven Cummins Particulate Filter reduces particulate matter by over 90%. In 2010 it is combined with Cummins SCR to meet emissions standards while maintaining best-in-class performance, reliability and durability. Cummins SCR technology has been proven in over 300,000 European vehicles and uses Diesel Exhaust Fluid (DEF) to achieve NOx emissions at near-zero levels. DEF is readily available; reference Cummins Filtration flyer LT15618 for more information.

ISL9 Specifications

Advertised Horsepower	345-450 HP	257-336 KW
Peak Torque	1150-1250 LB-FT	1561-1696 N•M
Governed Speed	2100 RPM (2200 RPM for 400-HP and 450-HP ratings)	
Clutch Engagement Torque	550 LB-FT	746 N•M
Number of Cylinders	6	
Oil System Capacity	6.3 U.S. GALLONS	23.85 LITERS
System Weight	1,895 LB	859 KG
Engine (Dry)	1,695 LB	769 KG
Aftertreatment System*	200 LB	90 KG

*Increase over standard muffler and does not include chassis OEM-supplied components.

ISL9 Maintenance Intervals

Maintenance Item	Miles/Kilometers	Hours	Months
Oil and Filter*	9,000 MI 14,500 KM	500	6
Primary Fuel Filter**	9,000 MI 14,500 KM	500	6
Secondary Fuel Filter	18,000 MI 29,000 KM	1,000	12
Coolant Filter	None***	None***	None***
Overhead Adjustment	150,000 MI 241,500 KM	5,000	48
Standard Coolant Change****	80,000 MI 128,000 KM	2,000	24
Coalescing Filter	Every 3rd to 4th Oil Change Interval		
DEF Filter	200,000 MI (320,000 KM) or 6,500 Hours		
Particulate Filter Cleaning	200,000 MI (320,000 KM) or 6,500 Hours		

*Assuming severe duty cycle for fire/emergency vehicle applications.

**OEM-supplied; intervals may vary.

***If engine is equipped with an optional coolant filter, it will need to be replaced at the same intervals as the oil filter. Regardless if the engine is or is not equipped with a coolant filter, SCA/DCA additive levels must be checked according to the interval listed in the Owners Manual.

****Extended coolant and drain/flush/fill intervals may be followed when certain requirements are met. For more information on these requirements, refer to the Cummins Coolant Requirements and Maintenance Service, Bulletin 3666132.

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: cumminsengines.com

Bulletin 4971210 Printed in U.S.A. Rev. 7/10
©2010 Cummins Inc.