

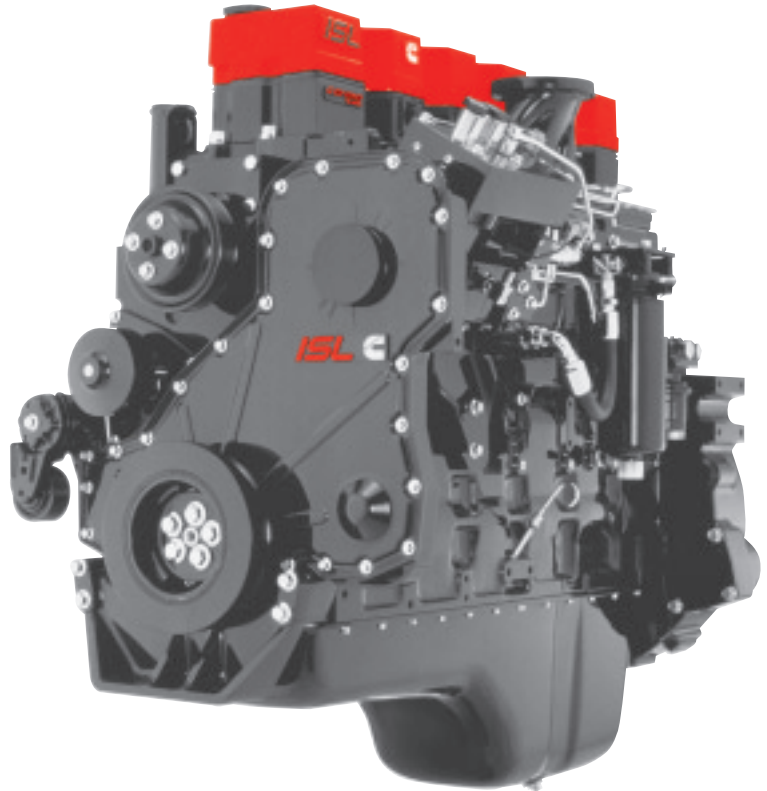
# ISL 400

## PERFORMANCE

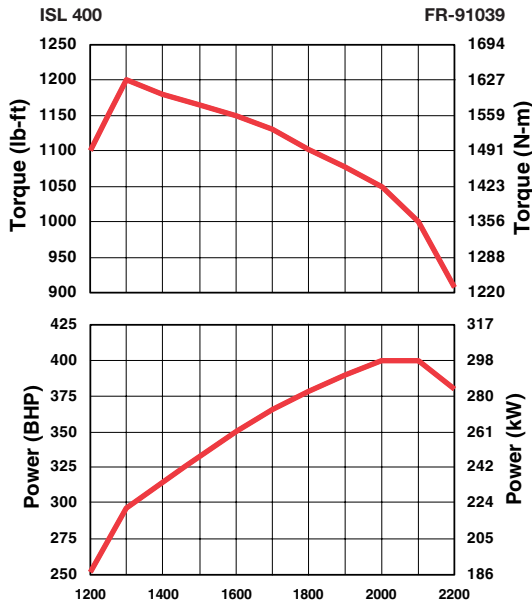
Performance at SAE standard J1995 conditions of 300 ft (90 m) altitude (29.61 in. Hg [100 kPa] barometric pressure), 77 °F (25 °C) air intake temperature and 0.30 in. Hg (1 kPa) water vapor pressure with No. 2 diesel fuel will be within 5% of that shown at the time of engine shipment. Actual performance may vary with different ambient conditions.

Curves represent performance of the engine with fuel system, water pump, lubrication oil pump, air compressor (unloaded), and with 10 in. H<sub>2</sub>O (250 mm) inlet air restriction and with 2.0 in. Hg (50 mm) exhaust restriction; not included are alternator, fan, optional equipment and driven components.

Within the recommended cruise range, gear to cruise at lower engine speeds for best economy, higher engine speeds for best performance.



### Restricted to RV, Tow/Roadside Recovery and Emergency Vehicle Applications.



## SPECIFICATIONS

Advertised Horsepower	400 bhp	(298 kW)
Peak Torque	1200 lb-ft	(1559 N-m)
Governed Speed	2200 rpm	
Clutch Engagement Torque	550 lb-ft	
Number of Cylinders	6	
Bore and Stroke	4.49 x 5.69	(114 x 144.5)
Engine Displacement	540 cu in	(8.9 L)
Compression Ratio	16.6:1	
Operating Cycles	4	[4]
Oil System Capacity	7.3 US gal	(27.6 L)
Coolant Capacity	11.7 US qt	(11.1 L)
Net Weight with Std. Accessories, Dry	1555 lb	(706 kg)
Installation Drawing Number	3170327	

## DESIGN FEATURES

The ISL 400 is a heavy-duty engine, designed to meet the demands of premium RV owners and fire truck operators.

**24-Valve Cylinder Head** - Four valves per cylinder for better "breathing." Single-piece design has integrated intake manifold and fuel supply.

**Cylinder Block** - Designed to run quietly and smoothly. Fluid lines are integrated into the block, replacing hoses and eliminating potential leak points. High capacity cooling and lubrication systems help to lower temperature and increase engine life. Electronic components are designed-in, not added on.

**Constant Pressure Fuel System** - Patented Cummins system delivers high injection pressures, independent of engine speeds. Results in improved throttle response and fuel economy with reduced emissions.

**Full-Authority Electronic Controls** - Optimized engine operation, diagnostics, prognostics and more. Deliver critical information for controlling costs, reducing maintenance, monitoring fleet operations and updating engines electronically, using industry-standard J1587 and J1939 data links.

**No-Adjust Overhead** - Rocker system designed to go at least 150,000 miles before checking. Roller followers and robust design are compatible with compression brakes.

**Low-Maintenance Fuel Filter Assembly** - Integrated water separator and water-in-fuel sensor help prevent performance problems that result from contaminated fuel. New 10-micron filter designed to increase filter change intervals up to 18,000 miles and be consistent with oil change intervals.

**Mid-Stop Cylinder Liners** - Replaceable wet cylinder liners with patented mid-stop design for durability with complete rebuildability.

**Piston** - Articulated design featuring forged steel crown and aluminum skirt allows for higher top ring position optimizing fuel efficiency.

**REPTO** - Rear Engine Power Take-Off is available for concrete mixers, dump trucks and anyone who needs to do double duty.

**Wastegated HX40W Turbocharger** - Delivers maximum torque at low rpm, exceptional power output at high rpm.

**C Brake™ by Jacobs®\*** - Interact System designed for easy integration of the optional Cummins C Brake by Jacobs, ensuring that the engine and engine brake work seamlessly together.

\*C Brake is a trademark of Cummins Inc. Jacobs is a registered trademark of Jacobs Vehicle Systems.

## CUSTOMER SUPPORT

**Service Network** - Cummins engines are backed by over 3,500 authorized service outlets with strategic locations in every state and province.

**Customer Assistance Center** - 1-800-DIESELS (1-800-343-7357). Cummins specialists provide technical assistance, service locator and product literature 24 hours/day, 365 days/year.

# ISL 400

## AUTOMATIC TRANSMISSION INFORMATION

The ISL 400 will deliver the optimum balance of performance and fuel economy if matched correctly. Select the proper rear axle ratio for the vehicle's tire size and desired top road speed.

For transmission recommendations specific to your application, contact your local transmission dealer or Cummins distributor. Typical torque converter matches:

	MD-3066	MH-3000
RV	N/A	TC-421
Fire Truck	TC-421	N/A



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

Phone: 1-800-DIESELS (1-800-343-7357)  
Fax: 1-800-232-6393  
E-mail: [powermaster@cummins.com](mailto:powermaster@cummins.com)  
Internet: <http://www.cummins.com>

Bulletin 3884998 Printed in U.S.A. Rev. 6/01  
©2001 Cummins Inc.

Cummins has always been a pioneer in product improvement. Thus specifications may change without notice. Illustrations may include optional equipment.