

EFFICIENT
BIG BORE POWER

Designed specifically for International® brand vehicles, with a combination of technologically advanced materials and components, the big bore, 13-liter N13 engine is the ideal powerplant for a variety of work applications. It leverages Cummins' proven SCR technology and delivers outstanding fuel economy, excellent power characteristics, an exceptionally smooth and quiet ride, and high strength without added weight. And it's backed by the largest dealer and service network in North America.

Horsepower (bhp @1700 rpm)	Torque Peak (lb.-ft. @1000 rpm)	Gov. Speed (rpm)
365	1250	2100
370	1350	1900/2100
390	1450	1900/2100
410	1450	1900/2100
430	1550	1900/2100
430	1550/1700	1900
450	1700	1900
450	1550/1700	1900
475	1700	1900/2000

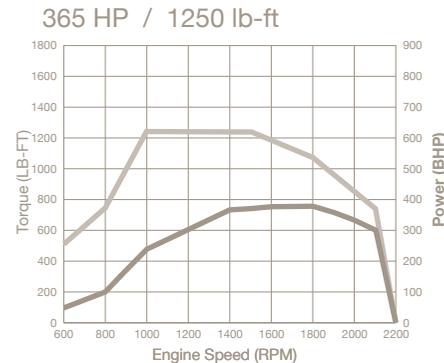
N13 SPECIFICATIONS

The N13 engine offers the following proven advantages:

- ▶ A high-pressure common-rail fuel system, dual wastegated sequential turbos, effective heat-management system and low-friction design all help deliver more torque and responsiveness at low rpm for outstanding fuel efficiency
- ▶ Peak torque is achieved at 1,000 rpm and holds steady to 1,400 rpm, providing earlier upshifts and fewer downshifts
- ▶ Built on a block of compacted graphite iron to provide superior strength, stiffness, density and years of reliable service up to 1.2 million mile B50 durability
- ▶ The advanced, ribbed CGI block, isolated oil pan and high pressure multi-shot fuel injection system combine to produce 30% lower noise inside the cab and much lower vibration for increased driver comfort
- ▶ Up to 200 pounds of weight savings over traditional 13-liter big bore, gray-iron engines which translates to greater payload capacity
- ▶ A single ECM reduces electrical connections throughout for improved reliability and molded hardware connections reduce chafing and provide a clean wire routing to reduce diagnostic and maintenance time
- ▶ Adaptable to a broad spectrum of applications and fleets with a number of features including programmable electronic parameters for increased fuel economy, an engine compression brake, front-end and rear-end PTO
- ▶ The N13 leverages Cummins' proven selective catalytic reduction (SCR) aftertreatment system to remove particulate matter and reduce emission levels. Used across North America and thoroughly tested under the most extreme conditions, Cummins offers unrivalled emissions technology experience.

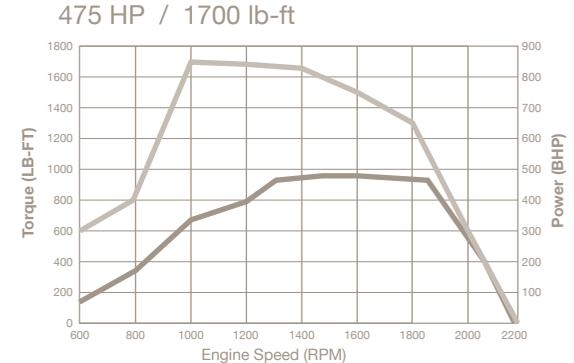
PEAK TORQUE AT LOWER RPM

365 HP / 1250 lb.-ft.



PEAK TORQUE AT LOWER RPM

475 HP / 1700 lb.-ft.



Configuration	Inline 6-cylinder
Displacement	12.4 L (758 cu. in.)
Bore & Stroke	4.96 in. & 6.54 in. (12.6 cm & 16.6 cm)
Compression Ratio	17:1
Aspiration	Dual Sequential Wastegated Turbochargers, Intercooler & Aftercooler
Combustion System	Direct Injection (Bosch® High Pressure Common Rail)
Lubrication System Capacity	42 Quarts (40 L)
Total Engine Weight (dry)	2,400 lbs. (1,089 kg)
Valves	4 Valves Per Cylinder, Overhead Cam Actuated
B50 Design Life**	1,200,000 mi (1,931,000 km) B50 Life

Preventative Maintenance Intervals

Change Engine Oil, Replace Oil Filters: Up to 40,000 miles (64,374) / 1,100 hours / 4,200 gallons (15,899L)
 Replace Fuel Filter: 25,000 miles (40,234km) / 12 months / 1,100 hours / 4,200 gallons (15,899L)
 Replace Coolant: 600,000 miles (965,606) / 6 years / 12,000 hours

Add Extended Life Coolant (ECL) Extender @ 300,000 (482,803 km) miles / 3 years / 6,000 hours

**B50 Design life is the mileage that 50% of the engine population would exceed without failure, requiring the removal of the oil pan, cylinder head, front gear train, or an in-frame overhaul. Jacobs is a registered trademark of Jacobs Vehicle Systems Inc.

N13 available in WorkStar®, PayStar®, TranStar and® ProStar®. Up to 475 hp ratings available in select N13 models.

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