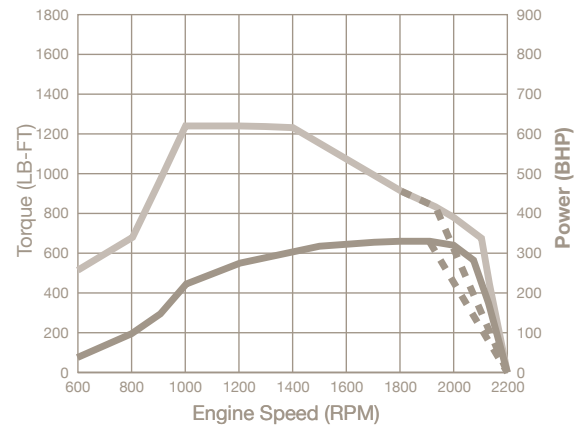


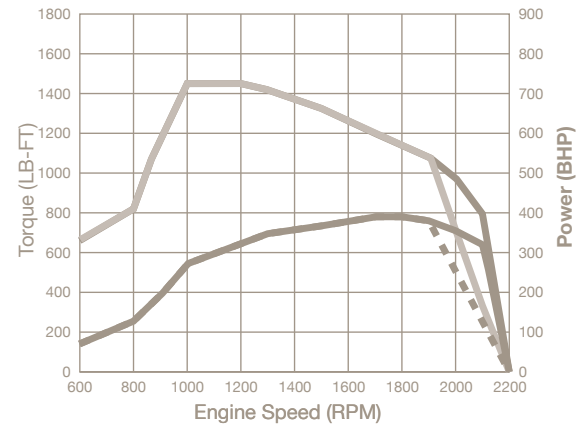
MAXXFORCE® 11 | MAXXFORCE® 13 SPECIFICATIONS

MAXXFORCE® 11 PERFORMANCE

PEAK TORQUE AT LOWER RPM
330 HP / 1250 lb.-ft.

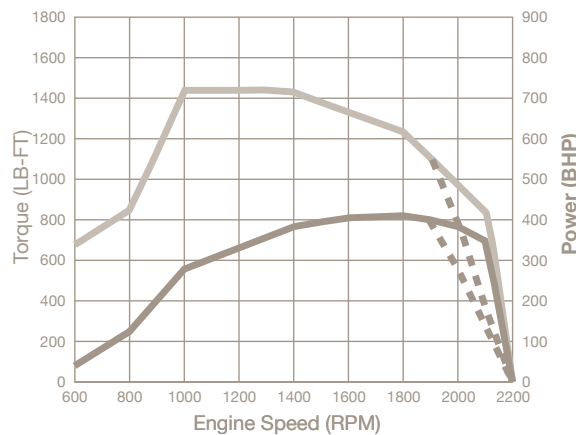


PEAK TORQUE AT LOWER RPM
390 HP / 1450 lb.-ft.

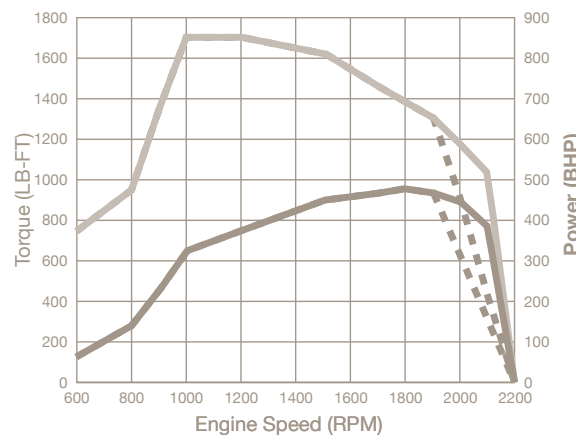


MAXXFORCE® 13 PERFORMANCE

PEAK TORQUE AT LOWER RPM
410 HP / 1450 lb.-ft.



PEAK TORQUE AT LOWER RPM
475 HP / 1700 lb.-ft.

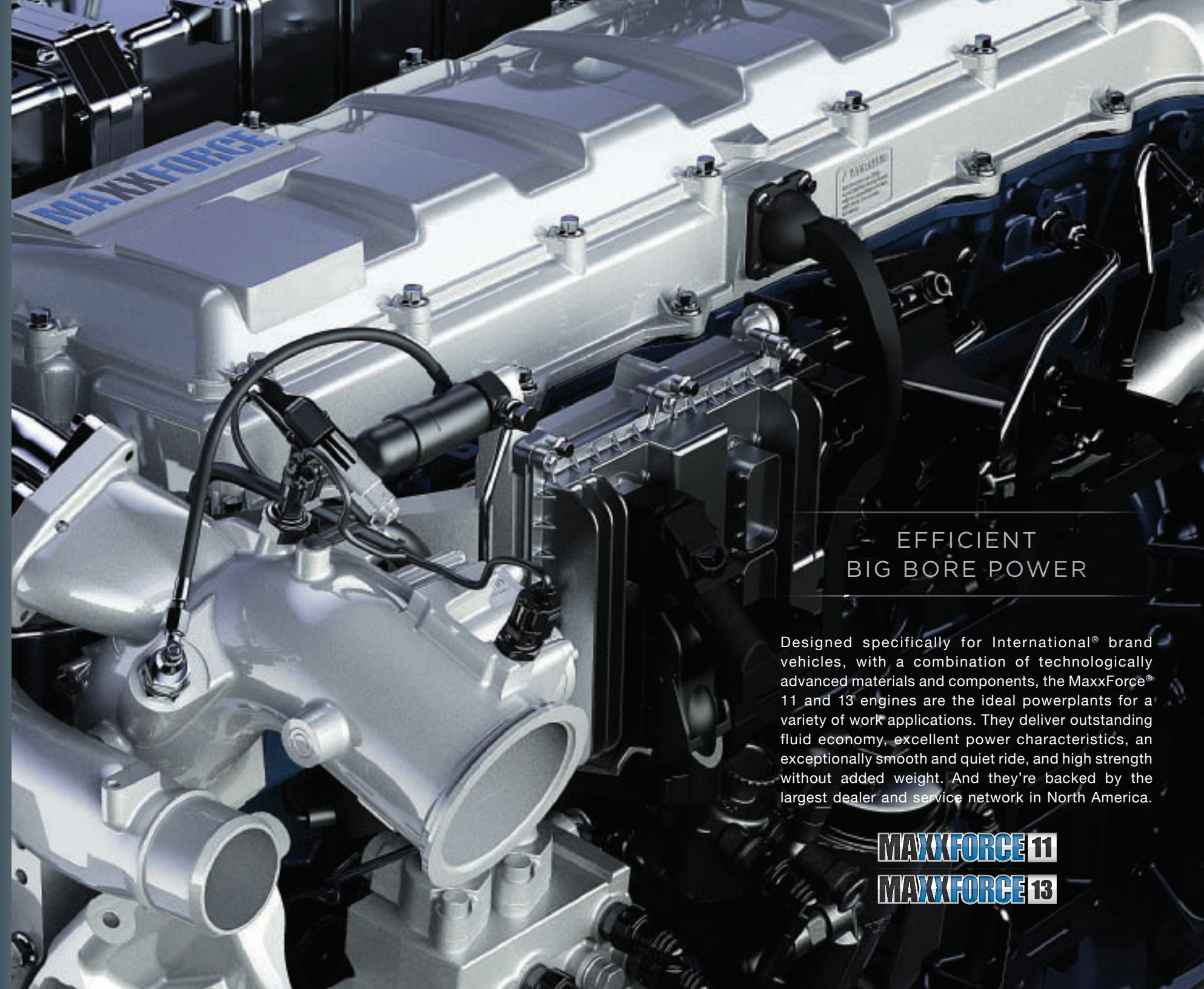


View all available torque curves at MaxxFORCE.com



MaxxFORCE 11, MaxxFORCE 13 available in WorkStar®, PayStar®, TranStar®, ProStar®, and LoneStar® (13L only). Up to 500 hp ratings available in select MaxxFORCE 13 models.
Note: Specifications and descriptions in this literature are as accurate as known at time of publication, but are subject to change without notice. TAD11031 03/2011
© 2011 Navistar Inc. All rights reserved. All marks are trademarks of their respective owners. Lithographed in the United States of America.

MAXXFORCE® 11 | MAXXFORCE® 13



EFFICIENT
BIG BORE POWER

Designed specifically for International® brand vehicles, with a combination of technologically advanced materials and components, the MaxxFORCE® 11 and 13 engines are the ideal powerplants for a variety of work applications. They deliver outstanding fluid economy, excellent power characteristics, an exceptionally smooth and quiet ride, and high strength without added weight. And they're backed by the largest dealer and service network in North America.



MAXXFORCE® 11 | MAXXFORCE® 13 SPECIFICATIONS

MaxxForce 11 and 13 engines offer the following proven advantages:

- ▶ A high-pressure common-rail fuel system, dual sequential turbos, effective heat-management system and low-friction design which deliver more torque and responsiveness at low rpm for outstanding fuel efficiency
- ▶ Peak torque is achieved at 1,000 rpm and holds steady to 1,200 rpm, a much lower engine speed than other big bore engines. This reduces gear-shifting needs uphill and allows for shifting at lower speeds when accelerating
- ▶ Built on a block of compacted graphite iron to provide superior strength, less fatigue and years of reliable service up to an unmatched 1.2 million mile B50 durability
- ▶ The advanced, ribbed CGI block and high-pressure multi-shot injection system combine to produce 30% lower noise inside the cab and much lower vibration for increased driver comfort
- ▶ Up to 500 pounds of weight savings over traditional big bore, gray-iron engines— which translate to greater payload capacity
- ▶ Easy access to key systems and components. A single ECM and fewer electrical connections throughout enable less diagnostic and maintenance time
- ▶ More versatility, with available options including a MaxxForce® Engine Brake by Jacobs®, programmable electronic parameters for increased fluid economy and fleet maintenance, a front-end PTO for plow and integral rear PTO for mixer and other applications

MaxxForce engines also feature MaxxForce Advanced EGR, the only no-hassle solution to EPA 2010 emissions. It reduces NOx in-cylinder without the use of liquid urea or additional maintenance.

MAXXFORCE® 11 PERFORMANCE DATA

Horsepower (bhp @1700 rpm)	Torque Peak (lb.-ft. @1000 rpm)	Gov. Speed (rpm)	Clutch Engagement Torque (lb.-ft. @800 rpm)
330	1250	1900/2100	686
365	1250	2100	686
370	1350	1900/2100	770
390	1450	1900/2100	811

Preventative Maintenance Intervals

Change Engine Oil, Replace Oil Filter: Up to 25,000 mi. (40,234 km) / 12 months / 1,100 hours / 4,200 gallons (15.899 L)

Replace Fuel Filter: 25,000 mi. (40,234 km) / 12 months / 1,100 hours / 4,200 gallons (15.899 L)

Replace Coolant:* 600,000 mi. (965,606 km/6 years / 12,000 hours)

MAXXFORCE® 13 PERFORMANCE DATA

Horsepower (bhp @1700 rpm)	Torque Peak (lb.-ft. @1000 rpm)	Gov. Speed (rpm)	Clutch Engagement Torque (lb.-ft. @800 rpm)
410	1450	1900/2100	828
430	1550	1900/2100	868
430	1550/1700	1900	868
450	1700	1900	959
450	1550/1700	1900	959
475	1700	1900/2000	959

Preventative Maintenance Intervals

Change Engine Oil, Replace Oil Filter: Up to 25,000 mi. (40,234 km) / 12 months / 1,100 hours / 4,200 gallons (15.899 L)

Replace Fuel Filter: 25,000 mi. (40,234 km) / 12 months / 1,100 hours / 4,200 gallons (15.899 L)

Replace Coolant:* 600,000 mi. (965,606 km / 6 years / 12,000 hours)

MAXXFORCE® 11 | MAXXFORCE® 13 SPECIFICATIONS

- ▶ Single-piece, gallery-cooled steel pistons bring longer life, and reduced blow-by and oil consumption
- ▶ Durability ensured by significantly larger main bearings than most competitors, crankcase ladder reinforcement, premium foam-molded wiring harness, and precision-machined wet sleeves
- ▶ Easier serviceability due to fewer connection points with a single-box 32-bit ECM that secures wiring and connections for increased reliability and durability
- ▶ Optional engine brake by Jacobs® provides quiet braking power and can extend the life of your service brakes, as well as eliminate the need for traditional exhaust-brake hardware



MAXXFORCE® 11 SPECS

Engine Type	Diesel, 4-cycle
Configuration	Inline 6-cylinder
Displacement	10.5 L (641 cu. in.)
Bore & Stroke	4.72 in. & 6.10 in. (12 cm & 15.5 cm)
Compression Ratio	16.5:1
Aspiration	Dual Sequential Turbochargers, Intercooler & Aftercooler
Combustion System	Direct Injection
Lubricating System Capacity	42 Quarts (40 L)
Total Engine Weight (dry)	2,400 lbs. (1,089 kg)
Dimensions	L 59 in. x W 37 in. x H 49 in. (L 150 cm x W 94 cm x H 125 cm)
Valves	4 Valves Per Cylinder, Overhead Cam Actuated
B50 Design Life**	1,200,000 mi. (1,931,000 km)

MAXXFORCE® 13 SPECS

Engine Type	Diesel, 4-cycle
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 Turbochargers, Intercooler & Aftercooler
Combustion System	Direct Injection
Lubricating System Capacity	42 Quarts (40 L)
Total Engine Weight (dry)	2,400 lbs. (1,089 kg)
Dimensions	L 59 in. x W 37 in. x H 49 in. (L 150 cm x W 94 cm x H 125 cm)
Valves	4 Valves Per Cylinder, Overhead Cam Actuated
B50 Design Life**	1,200,000 mi. (1,931,000 km)

*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.