



## TECHNICAL DATA

### SPECIFICATIONS

Configuration	Inline 6 cylinder
Displacement	781.12 cu in (12.8L)
Compression Ratio	18:1
Bore	5.04 in (128 mm)
Stroke	6.54 in (166 mm)
Weight (Dry)	2270 lbs (1030 kg)
Electronics	DDEC VI®

**MBE 4000 lightweight heavy-duty diesel engine maintains performance and fuel economy advantages at 2007 emission levels.**

### MBE 4000 FEATURES

#### Excellent Performance and Fuel Economy

- SMART fuel system maintains fuel economy and performance at reduced emissions
- DDEC VI electronics monitor and control the engine and aftertreatment system for peak efficiency

#### Engine Brake Technology Leader

- Standard engine brake has up to 370 braking horsepower at no added cost or weight
- Optional premium engine brake has up to 580 braking horsepower
- Both engine brake options are known for quiet operation

#### Low Emissions

- Optimized EGR system reduces NOx emissions by over 50%
- Aftertreatment system consisting of an Oxidation Catalyst and Diesel Particulate Filter reduce particulate matter emissions by 90%
- Electrostatic breather separator meets crankcase emissions requirements without added maintenance

### MAINTENANCE INTERVALS

Maintenance Item	Severe	Short-Haul	Long-Haul
Engine oil and filter change	10,000	15,000	25,000
Fuel filter change	12,000	30,000	50,000
Valve lash adjustment	20,000 first then 40,000	30,000 first then 60,000	50,000 first then 200,000

Severe-Duty: Less than 6,000 annual miles, Short-Haul: 6,000 to 60,000 Miles, Long-Haul: Over 60,000 annual miles.

### STANDARD WARRANTY<sup>1</sup>

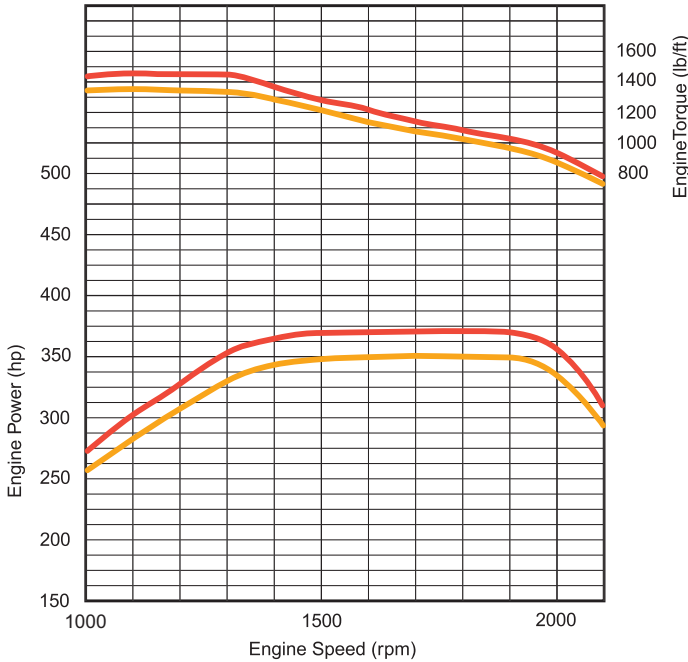
MBE 4000	Warranty Limitations (Whichever Occurs First)		Repair Charge To Be Paid By Owner	
	Months	Miles/km	Parts	Labor
Engine	0-24	Unlimited	No Charge	No Charge
Accessories	0-24	0-100,000 mi 0-160,000 km	No Charge	No Charge
<i>Upon expiration of the 24 month warranty coverage, but within 500,000 mi / 800,000 km of use, the warranty applies as follows:</i>				
Major Components <sup>2</sup>	25-60	0-500,000 mi 0-800,000 km	No Charge	100% of service outlet's normal charge

<sup>1</sup> See your Authorized Detroit Diesel service outlet for a copy of the warranty parchment for complete details.

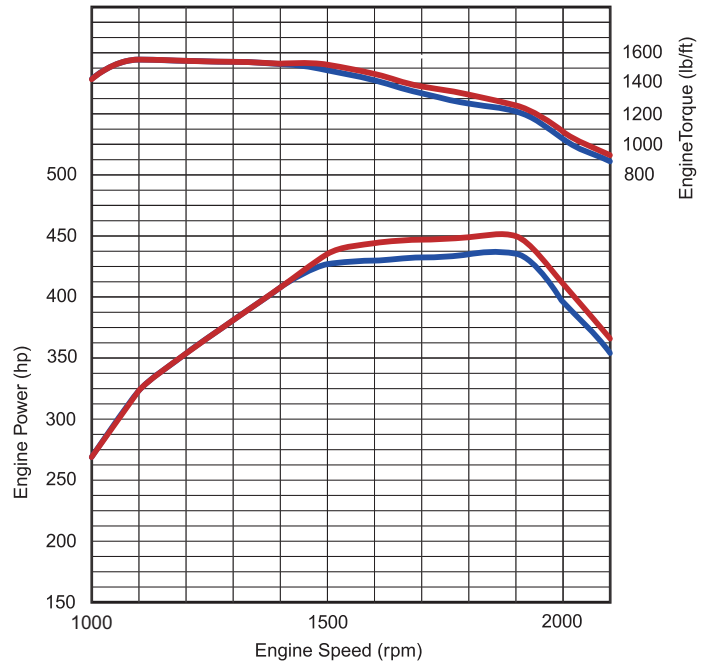
<sup>2</sup> Cylinder Block/Head, Crankshaft, Main Bearing Bolts, Flywheel Housing, Connecting Rod Assemblies, Oil Cooler Housing, Water Pump Housing and Air Inlet Housing.

# MBE 4000 2007 POWER RATINGS

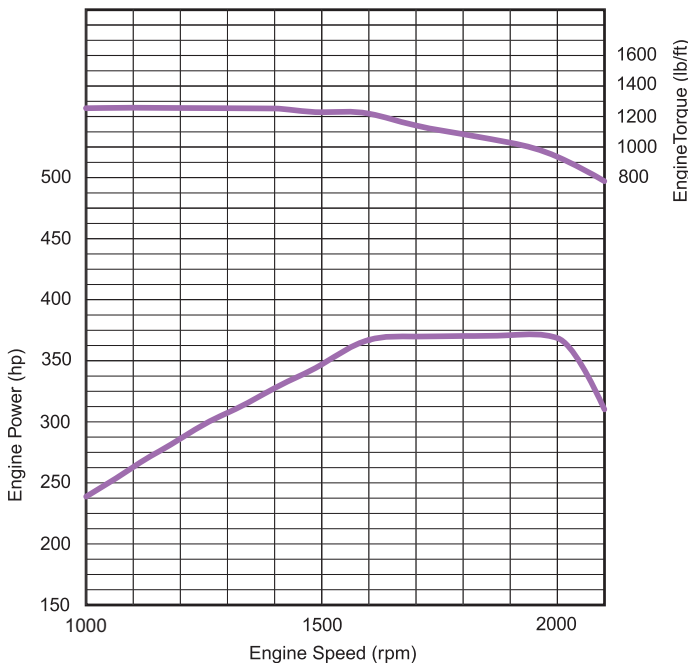
— 350 HP @ 1900 RPM 1350 lb/ft @ 1100 RPM  
— 370 HP @ 1900 RPM 1450 lb/ft @ 1100 RPM



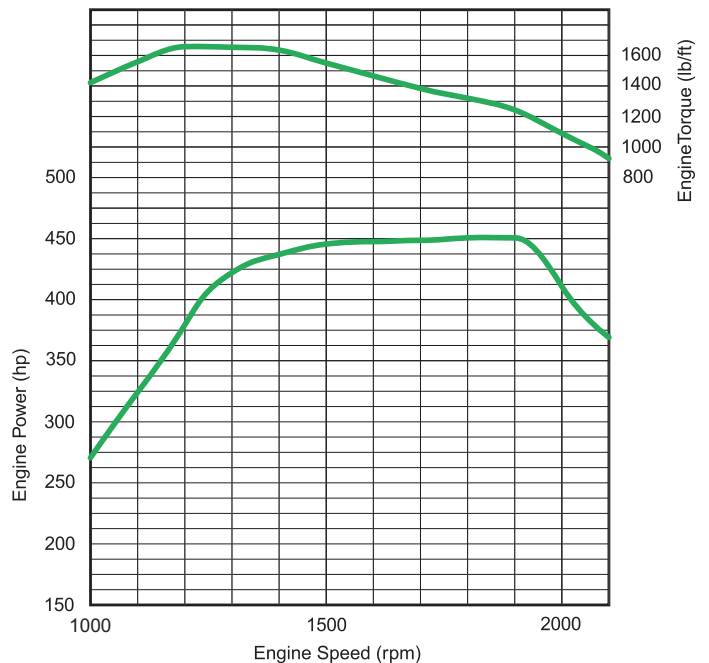
— 435 HP @ 1900 RPM 1550 lb/ft @ 1100 RPM  
— 450 HP @ 1900 RPM 1550 lb/ft @ 1100 RPM



370 HP @ 1900 RPM 1250 lb/ft @ 1100 RPM



450 HP @ 1900 RPM 1650 lb/ft @ 1100 RPM



**DETROIT DIESEL**



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[www.detroitdiesel.com](http://www.detroitdiesel.com)

For the Detroit Diesel Distributor or Dealer nearest you, visit [www.detroitdiesel.com](http://www.detroitdiesel.com) RP 1M, 3/06 3SA4007 (0603).

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