

**DETROIT DIESEL**

DEMAND PERFORMANCE™



## Fuel-efficient design delivers bottom-line benefits.

Designed specifically for Less-Than-Truckload, Regional Distribution and Vocational applications, the DD13™ delivers a smooth, quiet ride and up to 5% better fuel economy.\*

### Demand Economy

- Smart, fuel-efficient design makes the most of every gallon
  - Get up to 5% better fuel economy\*
  - Pulls strong down to 1100 RPM so drivers can spend more time in top gear
  - Amplified Common Rail System (ACRS™) optimizes each injection event to minimize fuel consumption
  - Advanced cooling system allows for decreased fan on time minimizing fuel consumption

### Demand Serviceability

- Lower your cost of ownership with easier serviceability
  - Longest scheduled maintenance intervals in its class
  - Oil, coolant and fuel filters are positioned above the frame rails for easier, faster and cleaner filter changes
  - 65% parts commonality with DD15™ means unmatched parts availability
  - Maintenance-free crankcase breather
  - Common serviceability with DD15 ensures trained technicians available

### Demand Performance

- Meet your deadline every time
  - Enjoy less shifting with an extremely wide and flat torque curve
  - Three-stage integrated Jacobs® brake offers quieter engine braking and provides superior braking horsepower for extended service brake life
  - Overall robust design provides B50 life of 1 million miles
  - Sturdy rear gear train and ribbed cast iron block minimize noise vibration harshness (NVH)
  - Asymmetrical turbocharger has fewer moving parts (compared with VGT design) for proven performance

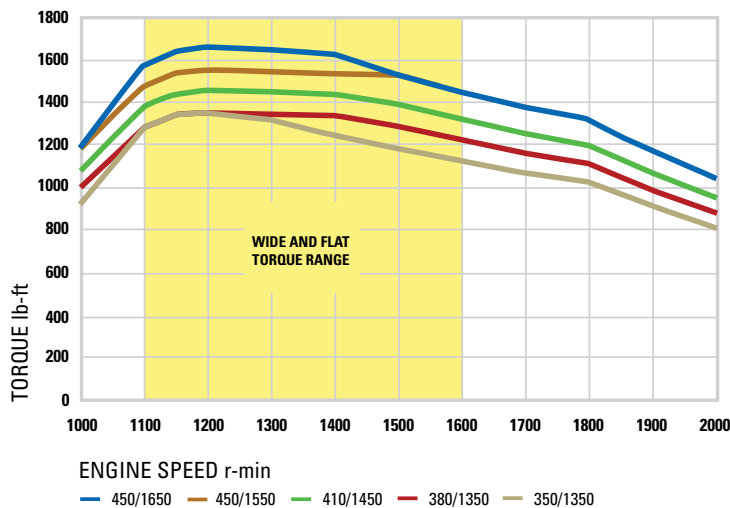


#### DD13 SPECIFICATIONS

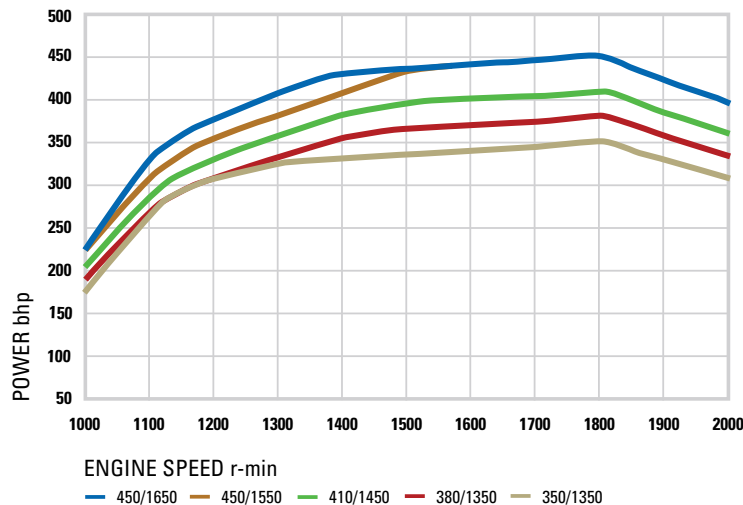
Configuration	Inline 6 Cylinder
Displacement	781 cu. in. (12.8 L)
Compression Ratio	17.3:1
Bore	5.20 in. (132 mm)
Stroke	6.15 in. (156 mm)
Weight (Dry)	2540 lb. (1152 kg)
Electronics	DDEC® VI
Clutch Engagement Torque	950 lb-ft
Oil Capacity	39.5 L
Dimensions (H x W x L)	53.0 x 51.5 x 58.3 in.

\*Compared to the MBE 4000 EPA 2007 engine with comparable engine ratings and load weights.

**Torque Curves**



**Horsepower Curves**



**Power Ratings**

DD13 Engine Power Ratings	
350 HP @ 1800 RPM	1350 lb-ft @ 1200 RPM
380 HP @ 1800 RPM	1350 lb-ft @ 1200 RPM
410 HP @ 1800 RPM	1450 lb-ft @ 1200 RPM
450 HP @ 1800 RPM	1550 lb-ft @ 1200 RPM
450 HP @ 1800 RPM	1650 lb-ft @ 1200 RPM

**Standard Warranty**

Item	Warranty Limits (Whichever Occurs First)		Repair Charge (Paid by Owner)	
	Months	Miles / Kilometers	Parts	Labor
Engine	0-24	Unlimited	No charge	No charge
Injectors	0-24	200,000 mi 320,000 km	No charge	No charge
Upon expiration of the 24-month warranty coverage, but within 500,000 mi / 800,000 km of use, the warranty continues to apply as follows:				
Major Components	25-60	500,000 mi 800,000 km	No charge	Not covered

**Maintenance Intervals**

Maintenance Item	Severe-Duty	Short-Haul	Long-Haul
Engine Oil and Filter Change*†	25,000 mi 640 hrs	35,000 mi 895 hrs	50,000 mi 1280 hrs
Fuel Filter Change*	25,000 mi 640 hrs	35,000 mi 895 hrs	50,000 mi 1280 hrs
Initial Valve Lash Adjustment*	60,000 mi or nearest scheduled maintenance interval		

\*Based on using Detroit Diesel lube oil and oil analysis program. Severe-Duty is up to 30,000 annual miles and a vehicle that averages less than 5 miles per gallon (mpg). Short-Haul is between 30,000 and 60,000 annual miles and a vehicle that averages between 5 and 6 mpg. Long-Haul is over 60,000 annual miles and a vehicle that averages greater than 6 mpg.

\*Miles/Hours, whichever occurs first.

**Extended Warranty Coverage (optional)**

Application	Extended Service Coverage
Line Haul	5yr / 500,000 mi
Vocational	7yr / 250,000 mi

See your local Detroit Diesel authorized outlet for further details.



For more information, call 1-800-445-1980. [www.DetroitDiesel.com](http://www.DetroitDiesel.com)

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