



Demand more. The DD16™ engine with BlueTec® emissions technology delivers.

For the first time, Detroit Diesel offers a big-bore workhorse with up to 600 horsepower and 2050 lb-ft of torque, delivering more efficient and dependable load-pulling power.

Demand Power.

- 15.6L displacement is the largest engine built by Detroit Diesel
- 600 HP/2050 lb-ft rating available to pull the most extreme loads
- Wide, flat torque curve pulls strong all the way down to 1000 RPM

Demand Performance

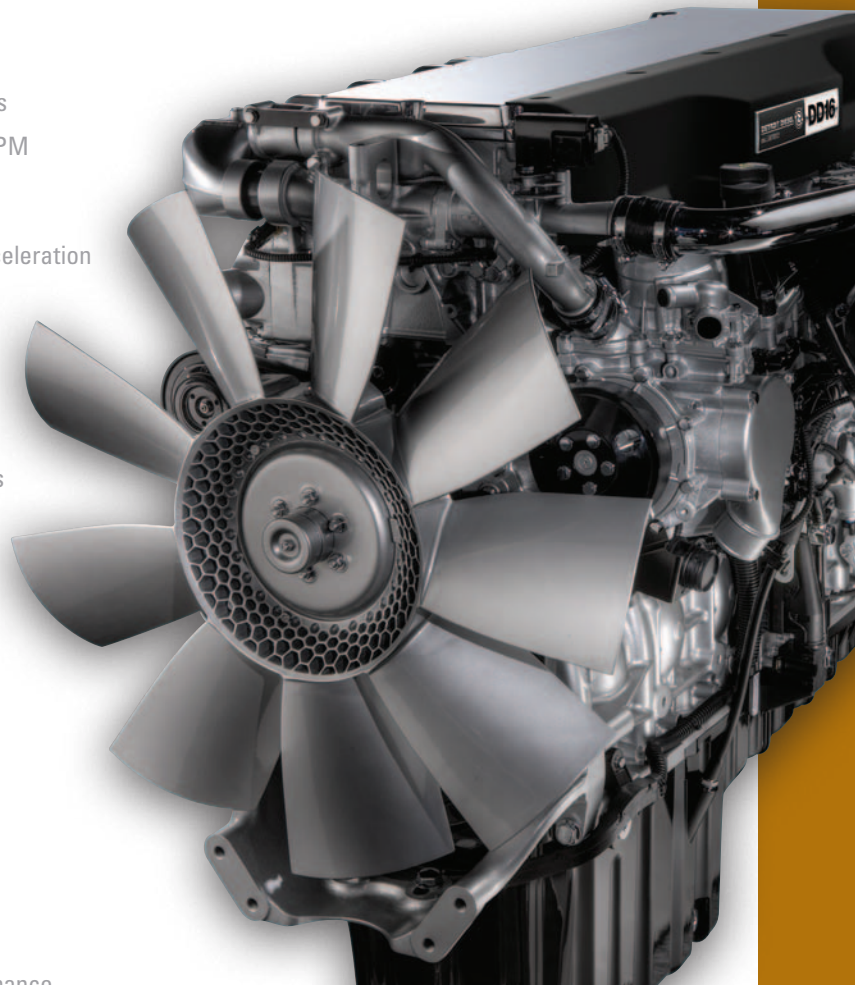
- Exceptional torque response leads to superior launch feel and acceleration
- Outstanding Gradeability
 - Flattens steep grades and mountain roads with greater speeds and pulling power
- Amplified Common Rail System (ACRS™)
 - Precise fuel delivery quantities for extremely quiet, smooth combustion and to meet stringent emissions control requirements
 - Variable injection patterns for optimal fuel economy across all modes of engine operation.
 - Final high pressure amplification is isolated in the injector, not in the rail or fuel lines, yielding less stress on components
- Turbo Compounding system recovers normally wasted exhaust gases and turns them into usable power without sacrificing fuel
- Integrated Jacobs® Engine Brake
 - Offers three levels of quieter engine braking for enhanced downhill control
 - Reduces wear on service brakes, tires and other components

Demand Serviceability

- Above-frame rail, cartridge-style filters facilitate operator maintenance
- Unmatched parts availability and expert service at Detroit Diesel's best performing service network
- Big-bore durability and reliability with a 1.2-million mile B50 life

Demand BlueTec® Emissions Technology

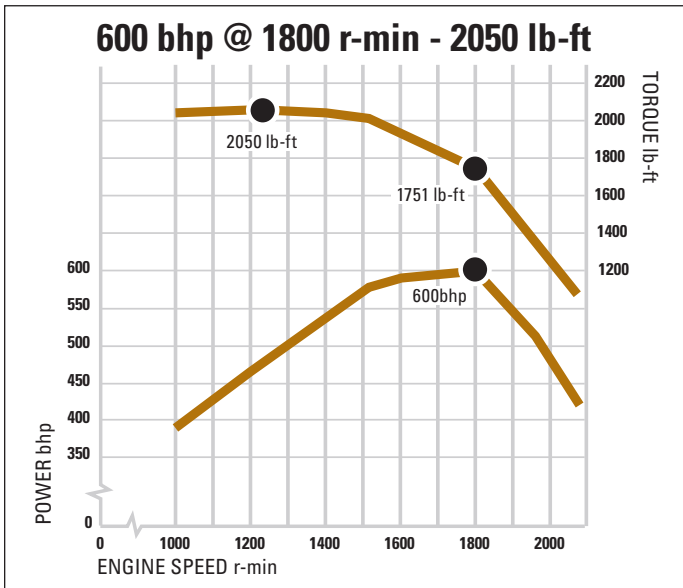
- Proven BlueTec emissions technology meets EPA 2010 emissions requirements at the tailpipe
- Improves engine performance and fuel economy
- Simple to use, economical to own and time-tested experience
- Available with 1-Box™ emissions package



DD16 SPECIFICATIONS

Configuration	Inline 6 Cylinder
Displacement	952 cu. in. (15.6 L)
Compression Ratio	17:1
Bore	5.47 in. (139mm)
Stroke	6.73 in. (171mm)
Electronics	DDEC® 10
Oil Capacity	47 qt. (45.7 L)
Horsepower Range	475-600
Torque Range	1750-2050

Horsepower and Torque Curve



Power Ratings

DD16 Engine Power Ratings	
475 HP @ 1800 RPM	1750 lb-ft @ 1100 RPM
500 HP @ 1800 RPM	1750 lb-ft @ 1100 RPM
535 HP @ 1800 RPM	1750 lb-ft @ 1100 RPM
500 HP @ 1800 RPM	1850 lb-ft @ 1100 RPM
550 HP @ 1800 RPM	1850 lb-ft @ 1100 RPM
600 HP @ 1800 RPM	1850 lb-ft @ 1100 RPM
600 HP @ 1800 RPM	1967 lb-ft @ 1100 RPM
500 HP @ 1800 RPM	2050 lb-ft @ 1100 RPM
550 HP @ 1800 RPM	2050 lb-ft @ 1100 RPM
600 HP @ 1800 RPM	2050 lb-ft @ 1100 RPM

DD16 Engine Multi-Torque Power Ratings	
475 HP @ 1800 RPM	1750/1950 lb-ft @ 1100 RPM
500 HP @ 1800 RPM	1850/2050 lb-ft @ 1100 RPM

Maintenance Intervals

Item	Mi/Hr†	Severe-Duty	Short-Haul	Long-Haul
Engine Oil and Filter Change*	Miles	25,000	35,000	50,000
	Hours	640	895	1,280
Fuel Filter Change	Miles	25,000	35,000	50,000
	Hours	640	895	1,280
Valve Lash Adjustment	Miles	Adjust at 100,000, at 500,000 and then every 500,000 thereafter.		
	Hours	Adjust at 2,565, at 12,825 and then every 12,825 thereafter.		
Diesel Particulate Filter	Miles	A "check engine light" will illuminate when ash requires removal. Normal DPF ash cleaning intervals are 300,000 to 400,000 miles.		
	Hours	A "check engine light" will illuminate when ash requires removal. Normal DPF ash cleaning intervals are 9,000 to 10,250 hours.		
DEF Pump Filter	Miles	150,000	175,000	250,000
	Hours	3,840	4,475	6,400

* Based on using Detroit Diesel's 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 5.1 and 5.9 mpg. Long-haul is over 60,000 annual miles and a vehicle that averages greater than 6 mpg.

† Miles/Hours, whichever occurs first.

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



For more information, call 1-800-445-1980. www.DetroitDiesel.com

DDC-EMC-FLY-0036-0210. Specifications are subject to change without notice. Detroit Diesel Corporation is registered to ISO 9001:2008. Copyright © Detroit Diesel Corporation. All rights reserved. Detroit Diesel Corporation is a Daimler company.

