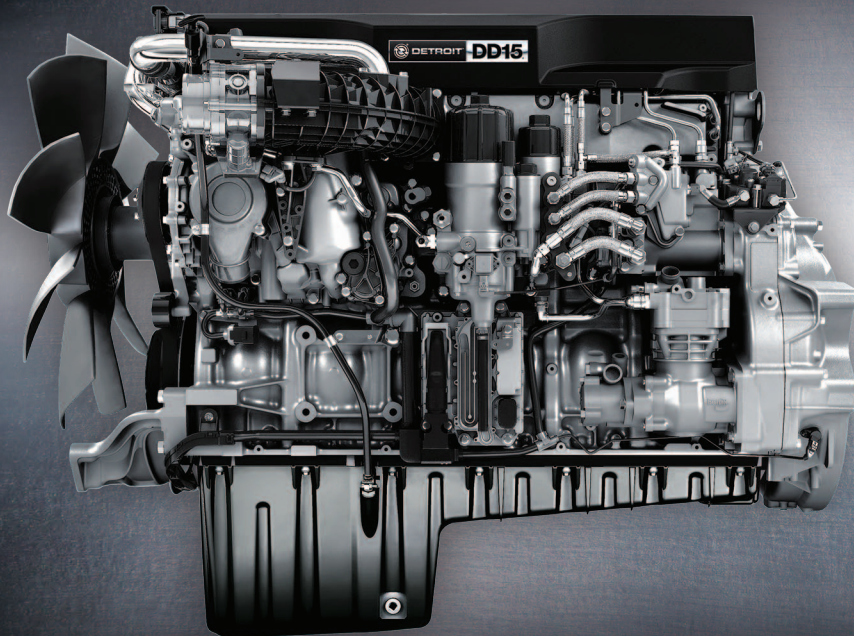




DETROITTM DD15[®]

TECHNICAL SPECIFICATIONS

THE DETROITTM DD15[®] ENGINE WITH BLUETEC[®] EMISSIONS TECHNOLOGY TAKES INNOVATION TO A WHOLE NEW LEVEL.

This impressive engine delivers incredible torque response and power, increased fuel economy, extremely wide torque range, extended maintenance intervals and a smoother, cleaner ride.

PERFORMANCE

- The DD15 delivers 90% peak torque in 1.5 seconds. Here's how:
 - Breakthrough innovation called Amplified Common Rail System (ACRSTM)
 - Simple and reliable pre-EPA '98 non-wastegated and non-variable geometry-style turbocharger
 - Low inertia, dual overhead camshafts
- ACRS reduces emissions, noise and vibration
- Rear gear train and ribbed cast iron cylinder block with integrated oil and coolant passages minimize vibration and sound
- Integrated Jacobs[®] Engine Brake with three levels of braking increases stopping power and reduces noise

FUEL ECONOMY

- Up to 5% fuel savings* over other leading engines
- Turbo compounding system recovers normally wasted exhaust gases and turns them into usable power without sacrificing fuel

POWER

- Pulls strong down to 1000 RPM
- Ultra-wide flat torque curve for less shifting

SERVICEABILITY

- Engine sub-systems are modularly built to simplify parts replacement and maintenance
- All filters are cartridge style and located above the frame rails for easy replacement

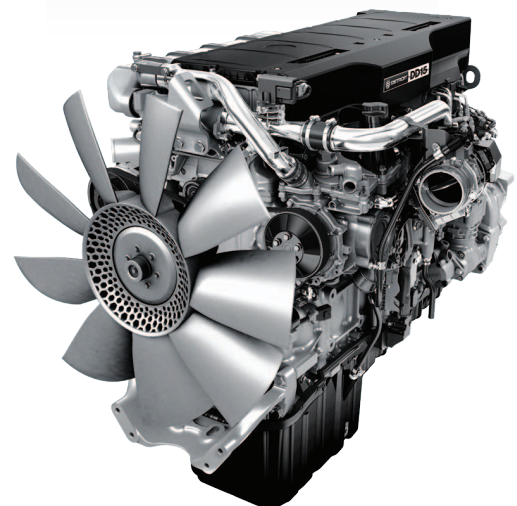
BLUETEC EMISSIONS TECHNOLOGY

- 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-BoxTM emissions package

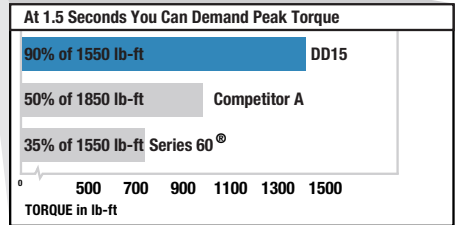
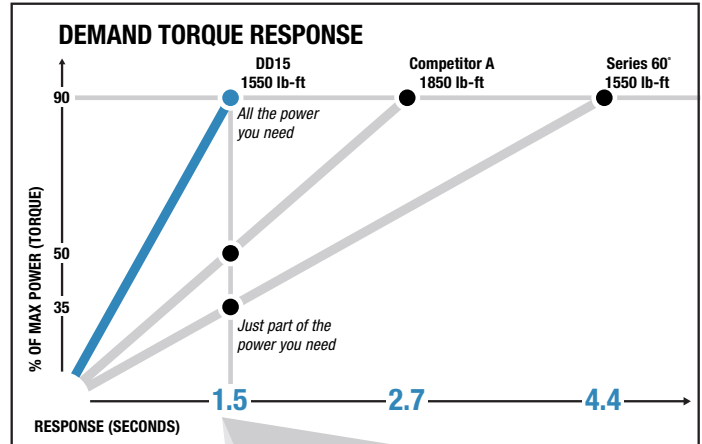
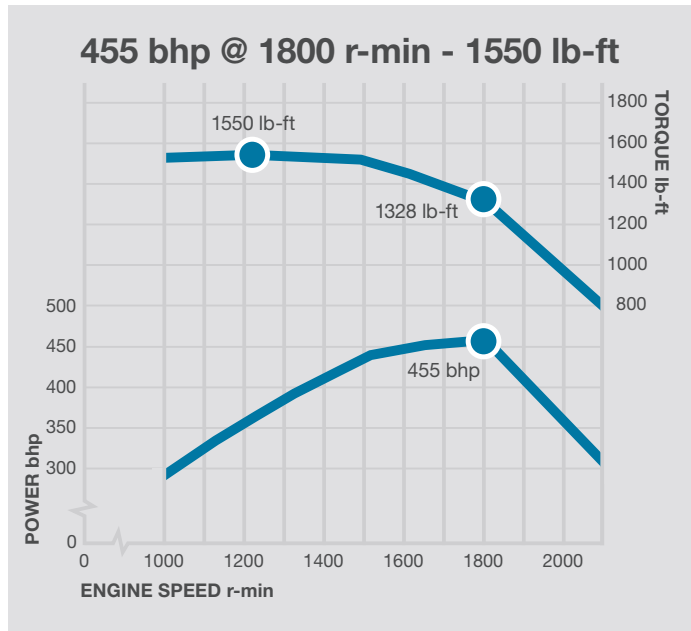
* Compared to the DD15 EPA 2007 engine with comparable engine ratings and load weights.

DD15 SPECIFICATIONS

Configuration	Inline 6 Cylinder
Displacement	906 cu. in. (14.8 L)
Compression Ratio	18.4:1
Bore	5.47 in. (139 mm)
Stroke	6.42 in. (163 mm)
Weight (Dry)	2880 lb. (1306 kg)
Electronics	DDEC [®] 10
Oil Capacity	47 qt. (45.7 L)
Horsepower Range	455-560
Torque Range	1550-1850



Horsepower and Torque Curve



Power Ratings

DD15 Engine Power Ratings	
455 HP @ 1800 RPM	1550 lb-ft @ 1100 RPM
455 HP @ 1800 RPM	1650 lb-ft @ 1100 RPM
475 HP @ 1800 RPM	1650 lb-ft @ 1100 RPM
505 HP @ 1800 RPM	1650 lb-ft @ 1100 RPM
475 HP @ 1800 RPM	1850 lb-ft @ 1100 RPM
500 HP @ 1800 RPM	1850 lb-ft @ 1100 RPM
530 HP @ 1800 RPM	1850 lb-ft @ 1100 RPM
560 HP @ 1800 RPM	1850 lb-ft @ 1100 RPM
DD15 Engine Cruise Power Ratings	
455/475 HP @ 1800 RPM	1550 lb-ft @ 1100 RPM
475/505 HP @ 1800 RPM	1650 lb-ft @ 1100 RPM
DD15 Engine Multi-Torque Power Ratings	
455 HP @ 1800 RPM	1550/1750 lb-ft @ 1100 RPM
475 HP @ 1800 RPM	1650/1850 lb-ft @ 1100 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

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'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.

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