



DETROIT[™] DD15[®]

TECHNICAL SPECIFICATIONS

THE DETROIT[™] DD15[®] ENGINE 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

- Meet your deadline every time
 - Enjoy less shifting with an extremely wide and flat torque curve
 - Three-stage integrated Jacobs[®] engine brake offers quieter engine braking and provides superior braking horsepower for extended service brake life
 - Overall robust design provides B50 life of 1.2 million miles
 - Sturdy rear gear train and ribbed cast iron block minimize noise vibration harshness (NVH)

ECONOMY

- 2nd Generation Amplified Common Rail System (ACRS[™]) optimizes each injection event to minimize fuel consumption
- Proven asymmetric turbocharger—now built in Detroit—is optimally matched to updated Exhaust Gas Recirculation (EGR) system for improved efficiency
- Advanced cooling system with variable speed water pump reduces load on the engine minimizing fuel consumption

POWER

- Pulls strong down below 1000 RPM
- Ultra-wide flat torque curve for less shifting
- Usable power and torque reached at lower engine speeds improving vehicle startability

SERVICEABILITY

- Longest scheduled maintenance intervals in its class
- Oil and fuel filters are positioned above the frame rails for easier, faster and cleaner filter changes
- Maintenance-free crankcase breather
- Detroit[™] Connect Virtual TechnicianSM remote diagnostic service helps you maximize uptime

COMPLIANCE

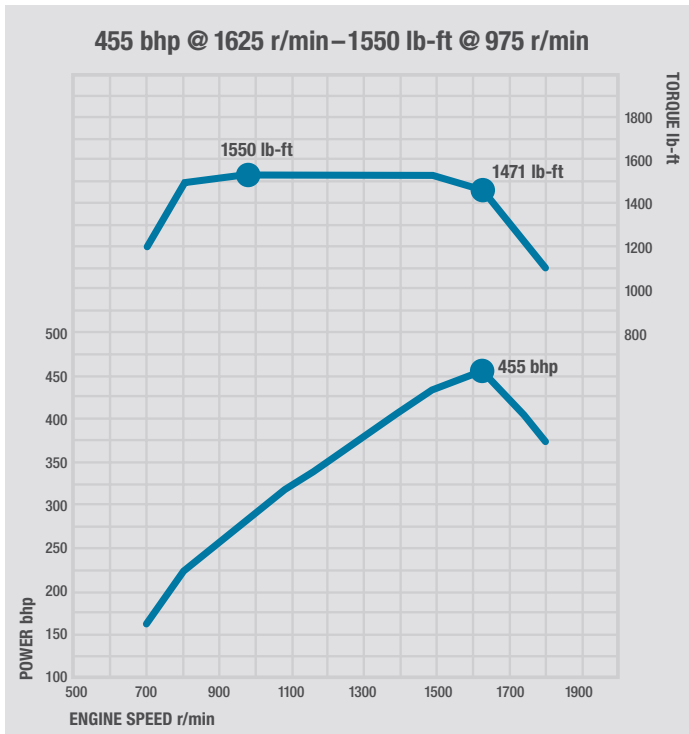
- The DD15 is compliant with 2017 Greenhouse Gas (GHG17) requirements

DD15 SPECIFICATIONS

Configuration	Inline 6 Cylinder
Displacement	906 cu. in. (14.8 L)
Compression Ratio	18.5:1
Bore	5.47 in. (139 mm)
Stroke	6.42 in. (163 mm)
Weight (Dry)	2718 lb. (1233 kg)
Electronics	DDEC [®]
Service Fill (Oil & Filter Change) ..	45 qt. (43 L)
Horsepower Range	400-505
Torque Range	1550-1750



Horsepower and Torque Curve



Power Ratings

DD15 Engine Power Ratings	
400 HP @ 1625 RPM*	1750 lb-ft @ 975 RPM*
455 HP @ 1625 RPM	1550 lb-ft @ 975 RPM
455 HP @ 1625 RPM	1650 lb-ft @ 975 RPM
475 HP @ 1625 RPM	1650 lb-ft @ 975 RPM
505 HP @ 1625 RPM	1650 lb-ft @ 975 RPM
505 HP @ 1625 RPM	1750 lb-ft @ 975 RPM
DD15 Engine Cruise Power Ratings	
475/505 HP @ 1625 RPM	1650 lb-ft @ 975 RPM
DD15 Engine Multi-Torque Power Ratings	
455 HP @ 1625 RPM	1550/1750 lb-ft @ 975 RPM

* Integrated Detroit Powertrain only.

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

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Maintenance Intervals*

Item	Mi / km / Hr†	Severe Duty	Short-Haul	Long-Haul	Efficient Long-Haul
Engine Oil and Filter Change**	Miles	35,000	45,000	60,000	75,000
	Kilometers	56,000	72,000	97,000	121,000
	Hours	750	1000	—	—
Fuel Filter Change	Miles	35,000	45,000	60,000	75,000
	Kilometers	56,000	72,000	97,000	121,000
	Hours	750	1000	—	—
Valve Lash Adjustment	Miles	Adjust at 100,000, at 500,000, and then every 500,000 thereafter.			
	Kilometers	Adjust at 160,000, at 800,000, and then every 800,000 thereafter.			
Diesel Particulate Filter	A check engine light will illuminate when ash requires removal. Normal DPF ash clean interval is:				
	Miles	500,000 to 550,000			
	Kilometers	800,000 to 880,000			
DEF Pump Filter	Hours	11,000 to 11,500			
DEF Pump Filter	Replace filter every 3 years or 500,000 (800,000 km) miles, whichever comes first.				

* Maintenance intervals using Detroit Fluids Specification 93K222 (CK-4) or 93K223 (FA-4) Approved Oils.

** Recommended based on using Detroit's lube oil and oil analysis program.

Severe duty is up to 30,000 annual miles (48,000 kilometers) and a vehicle that averages less than 5 miles per gallon (mpg).

Short-haul is between 30,000 and 60,000 annual miles (48,000-96,000 kilometers) and a vehicle that averages between 5.1 and 5.9 mpg.

Long-haul is over 60,000 annual miles (96,000 kilometers) and a vehicle that averages between 6.0 and 6.9 mpg.

Efficient long-haul is over 60,000 annual miles (96,000 kilometers) and a vehicle that averages greater than 7 mpg.

Fuel economy represents overall fuel economy (including idle time).

† Miles/Kilometers or Hours, whichever occurs first.

