

# DETROIT<sup>®</sup> DD13<sup>®</sup> GEN5

ON-HIGHWAY TECHNICAL SPECS

THE NEW DD13 GEN 5 ENGINE TAKES EFFICIENCY AND PERFORMANCE TO THE NEXT LEVEL. WITH ADVANCED DIESEL ENGINE TECHNOLOGY, EXPERT ENGINEERING AND MORE, THE DD13 GEN 5 OFFERS UNMATCHED RELIABILITY FOR YOUR TRUCK.

KEY ON-HIGHWAY FEATURES INCLUDE:

#### IMPROVED FUEL ECONOMY.

Complete with a swirl piston design, ultra-high compression ratios and a new, 10-pin injector, the DD13 Gen 5 creates better combustion, reduces ash production and improves fuel economy up to 4%.

#### POWER TO MOVE PAYLOADS QUICKLY.

New turbochargers allow for rapid torque performance. This helps move payloads quickly, without compromising efficiency.

#### LESS MAINTENANCE. MORE UPTIME.

With a single, large diesel particulate filter (DPF) and asymmetric cell technology, the new Detroit aftertreatment system extends service intervals by more than 16%.

#### FEWER REGENS.

Improved thermal management systems such as Asymmetric Injection and Auto-Elevate ensure optimal temperatures, extend idles and allow for low-load PTO operation for fewer regens.

#### MAXIMUM VERSATILITY.

Thanks to new power ratings, greater application coverage and power takeoffs, available in the front and rear engine, the DD13 Gen 5 is suited for a variety of jobs.

#### PROVEN RELIABILITY.

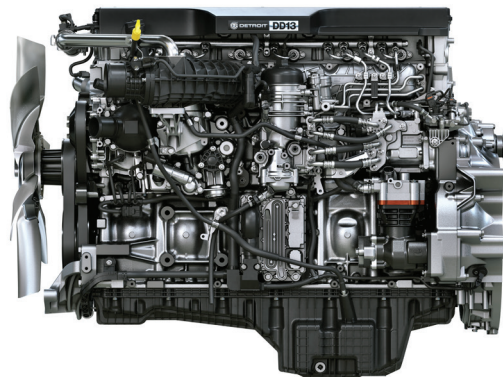
With expertly engineered improvements such as cooling system optimization and block and oil system enhancements, the DD13 is more reliable than ever before.

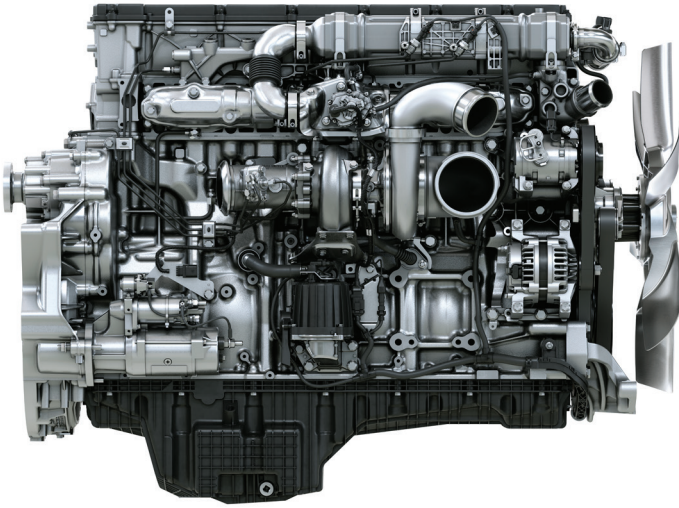
#### TRUSTED SERVICE TO TAKE YOU FURTHER.

The #1-rated Detroit service network, when paired with the Detroit Connect Virtual Technician<sup>®</sup> remote diagnostic system and increased down speeding with IDP ratings, makes it easier to maximize uptime.

#### DD13 GEN 5 IDP SPECIFICATIONS

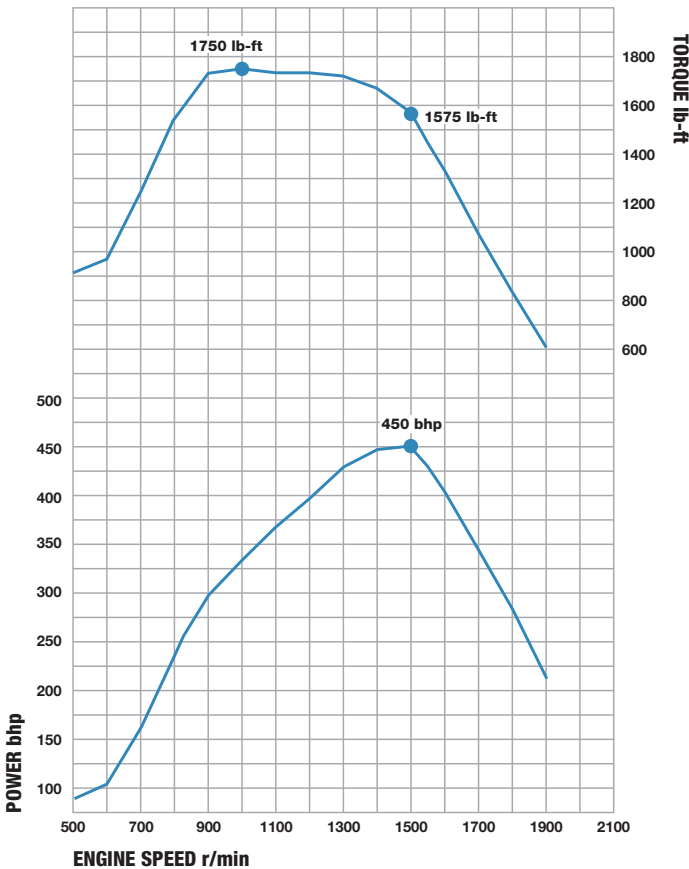
Configuration	.....	Inline 6 Cylinder
Displacement	.....	781 CU IN (12.8 L)
Compression Ratio	.....	20.3:1
Bore	.....	5.20 in (132 mm)
Stroke	.....	6.15 in (156 mm)
Weight (Dry)	.....	2487 lb (1128 kg)
Electronics	.....	DDEC <sup>®</sup>
Service Fill (Oil & Filter Change)	.....	40 qt (38 L)
Horsepower Range	.....	425-450
Torque Range	.....	1750 LB-FT





### DD13 GEN 5 IDP PERFORMANCE CURVE

450 bhp / 1750 lb-ft



### DETROIT CONNECT<sup>®</sup>

Detroit Connect provides fleets and owner-operators services and tools to improve uptime, fuel efficiency, safety, and performance. A suite of proprietary vehicle solutions, this technology helps you better manage daily business operations.

### Maintenance Intervals\*

Item	Mi/Km/Hr†	Severe Duty	Short-Haul	Long-Haul	Efficient Long-Haul
Engine Oil and Filter Change**	Miles	35,000	40,000	55,000	65,000
	Kilometers	56,000	64,000	89,000	105,000
	Hours	750	1,000	-	-
Fuel Filter Change	Miles	35,000	40,000	55,000	65,000
	Kilometers	56,000	64,000	89,000	105,000
	Hours	750	1,000	-	-
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				
	Miles	455,000	465,000 to 540,000	550,000 to 630,000	>640,000
	Kilometers	732,252	748,345 to 869,046	885,139 to 1,013,887	>1,029,980
	Hours	10,000	10,000 - 12,000	12,000 - 14,000	>14,000
DEF Pump Filter	Replace filter every 3 years or 500,000 miles (800,000 km), whichever comes first				

\* Maintenance intervals using Detroit<sup>®</sup> 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.

† Miles/Kilometers or 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

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