

DETROIT™ DD13

TECHNICAL SPECIFICATIONS

EFFICIENCY AND PERFORMANCE. THAT'S WHAT DETROIT ENGINES DELIVER. OPTIMISED FOR YOUR BOTTOM LINE, DETROIT ENGINES ARE DESIGNED FOR MAXIMUM PRODUCTIVITY.

Designed specifically for intrastate local distribution and vocational applications, the DD13 delivers a smooth, quiet ride and improved fuel economy. Boasting superior service intervals and an easily serviceable design, the Detroit DD13 increases your uptime, lowering your overall cost of ownership.

PERFORMANCE

- An extremely wide and flat torque curve means less shifting
- Three-stage integrated Jacobs engine braking offers quieter engine braking and superior braking horsepower for extended service break life
- Sturdy rear gear train and ribbed cast-iron block minimise noise vibration harshness
- Proven asymmetric turbocharger optimally matched to refined exhaust gas recirculation system with improved flow for better efficiency

SERVICEABILITY

- Lower your cost of ownership with easier serviceability
- Superior scheduled maintenance intervals and extended coverage warranty package across a broad range of applications
- Oil and fuel filters are positioned above the frame rails for easier, faster and cleaner filter changes

- Maintenance-free crankcase breather
- Unmatched parts availability and expert service through the Daimler Truck service network
- Detroit Connect™ Virtual Technician remote diagnostic service helps you maximise uptime

ECONOMY

- Smart, fuel-efficient design makes the most of every litre
- Pulls strong down below 1000 RPM so drivers can spend more time in top gear
- Second generation amplified common rail system™ optimises each injection event to minimise fuel consumption
- Advanced cooling system allows for decreased fan on time, minimising fuel consumption

COMPLIANCE

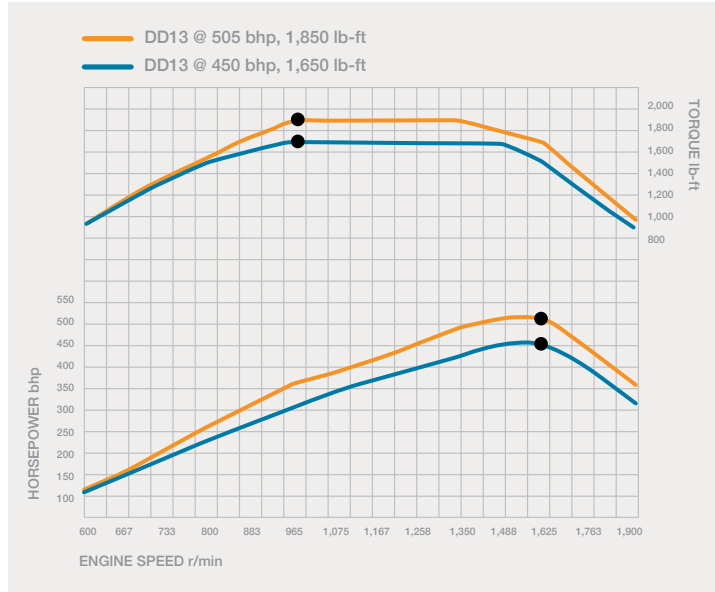
- The DD13 is compliant with 2017 Greenhouse Gas (GHG17) requirements

DD13 SPECIFICATIONS

Configuration.....	Inline 6 Cylinder
Displacement.....	781 cu. in. (12.8 L)
Compression Ratio.....	18.4:1
Bore.....	5.20 in. (132 mm)
Stroke.....	6.15 in. (156 mm)
Weight (Dry).....	2487 lb. (1128 kg)
Electronics.....	DDEC
Service Fill (Oil & Filter Change)...	40 qt. (38 L)
Horsepower Range.....	450-505 bhp
Torque Range.....	1650-1850 lb-ft



Horsepower and Torque Curves



Maintenance Intervals**

Component	Severe, Short-Haul and Dusty Conditions	B-Double or Single Trailer	Multi-Trailer
Engine Oil and Engine Oil Filter	30,000 km or 480 hrs	80,000 km or 1,280 hrs	60,000 km or 960 hrs
Engine Fuel Filter	60,000 km or 960 hrs	160,000 km or 2,560 hrs	120,000 km or 1,920 hrs
Frame Mounted Fuel / Water Filter	30,000 km or 480 hrs	80,000 km or 1,280 hrs	60,000 km or 960 hrs
Valve Lash Adjustment	150,000 km	320,000 km	300,000 km
Coolant Change – ELC	450,000 km	960,000 km	900,000 km
Diesel Particulate Filter*	A check engine light will illuminate when ash requires removal. Normal DPF ash clean interval is approximately 600,000 km or 8,250 hours		
DEF Filter	225,000 km	480,000 km	450,000 km

* Maintenance intervals using DFS 93K222(CK-4) Approved Oils that also Meet MB 2258.31. Using Ultra Low Sulfur Diesel (ULSD) Fuel Severe, Short-Haul and Dusty Conditions: Vehicles that operate under normal conditions and travel less than 100,000 km annually in metropolitan areas with frequent freeway travel, or stop-and-go travel.

B-Double or Single Trailer: With one or more trailers to be pulled on sealed roads 100% of its operation and annually travels more than 100,000 km up to 68.5t GCM.

Multi-Trailer: Applies to multi-trailer general freight operation vehicles that operate 100% on sealed road and annually travel more than 100,000 km from > 68.5t up to < 85t GCM.

† Kilometres or Hours, whichever occurs first.

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Power Ratings

DD13 Engine Power Ratings	
450 bhp @ 1625 RPM	1650 lb-ft @ 975 RPM
470 bhp @ 1625 RPM	1650 lb-ft @ 975 RPM
505 bhp @ 1625 RPM	1850 lb-ft @ 975 RPM

Standard Warranty

Item	Warranty Limits (Whichever Occurs First)		Repair Charge (Paid by Owner)	
	Months	Kilometres	Parts	Labour
Engine	0-24	Unlimited	No charge	No charge
Injectors	0-24	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	800,000 km	No charge	Not covered

Extended Coverage

Agreement Limitation		Adjustment Charge	
Years	Kilometres	Parts	Labour
4	800,000 km [†]	No Charge	No Charge

* Fuel burn and engine hours limits also apply. The engine must be maintained in accordance with Detroit operator's guide. For complete details and customer obligations please refer to EW4 Agreement.

All data is correct at the time of printing.

