

WESTERN STAR TRUCKS

DETROIT DD13^{GEN5}

TECHNICAL SPECIFICATIONS

FROM A FAMILY OF POWERFUL HEAVY-DUTY ENGINES, THE DD13 GEN 5 TOUTS UNMATCHED VERSATILITY AND STRENGTH. FROM CUTTING EDGE DIESEL ENGINE TECHNOLOGY TO EXPERT ENGINEERING AND MORE, THE DD13 GEN5 IS AN ENGINE YOU CAN COUNT ON. DETROIT. SETS THE BAR.

KEY OPERATIONAL BENEFITS 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% while meeting the ADR 80/04 standard.

POWER TO MOVE PAYLOADS QUICKLY.

A new turbocharger allows for rapid torque response. 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.

FEWER REGENS.

Improved thermal management systems such as asymmetric injection and auto-elevate ensure optimal temperatures during periods of idling and low load PTO operation for fewer regens.

MAXIMUM VERSATILITY.

Thanks to new power ratings, specifically tailored for the Australian and New Zealand markets, the DD13 Gen 5 is suited for a wider variety of jobs than ever before.

PROVEN RELIABILITY.

With expertly engineered improvements such as cooling system optimization and oil system enhancements, the DD13 Gen 5 is more reliable than ever before.

TRUSTED SERVICE TO TAKE YOU FURTHER.

Paired with the Detroit Connect Virtual Technician® remote diagnostic system, the Detroit service network helps to maximise uptime.

DD13 GEN 5 SPECIFICATIONS

Configuration	Inline 6 Cylinder
Displacement.....	782 CU IN (12.8 L)
Compression Ratio	20.3:1
Bore.....	5.20 in (132 mm)
Stroke.....	6.15 in (156 mm)
Weight (Dry).....	2,447 lb (1,110kg)
Electronics.....	DDEC®
Service Fill (Oil & Filter Change).....	40 qt (38 L)
Horsepower Range.....	450-525 hp
Torque Range.....	1,550-1,850 lb-ft



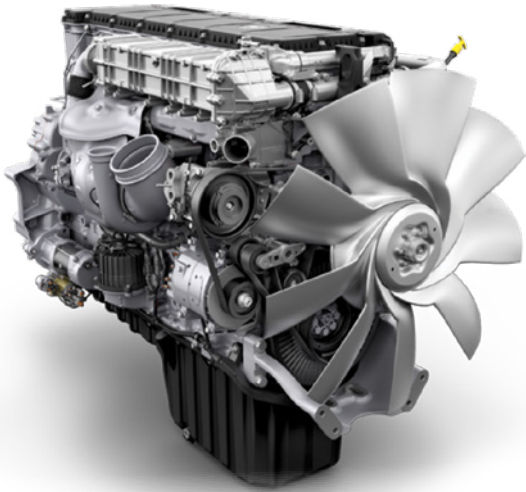
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DETROIT™



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	Initial valve lash set at 320,000 km and then every 320,000 km thereafter		
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 Using DFS 93K222(CK-4) or DFS93K223 (FA-4) Approved Oils Using Ultra Low Sulfur Diesel (ULSD) Fuel.

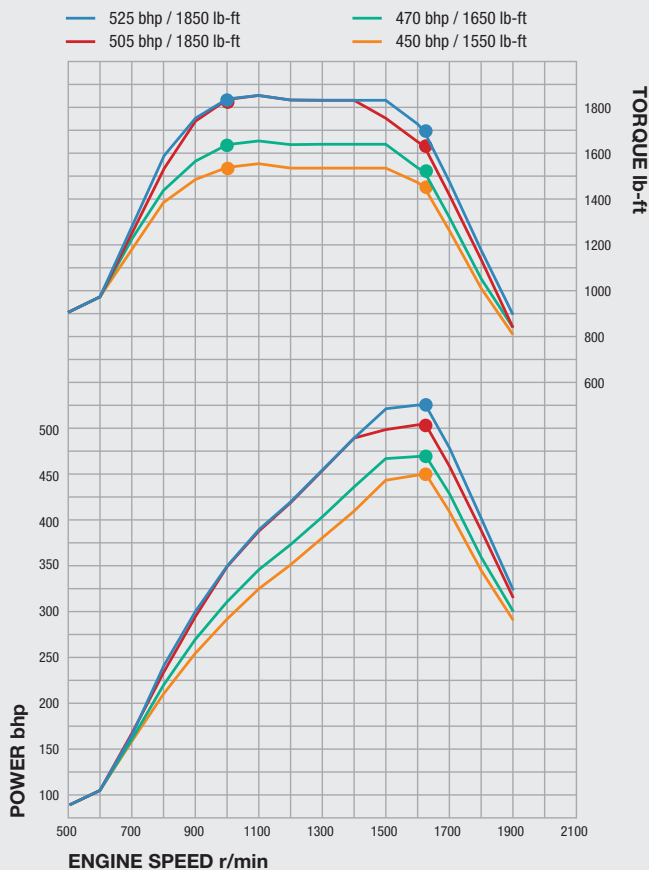
Severe, Short-Haul and Dusty Conditions: Vehicles that operate under normal conditions and travel less than 100,000 km annually in metropolitan areas with infrequent freeway travel, or stop-and-go travel.

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 62.5t GCM.

Multi-Trailer: Applies to multi-trailer general freight operation vehicles that operate 100% on sealed roads and annually travel more than 100,000 km from > 62.5t up to < 90t GCM.

† Kilometres or Hours, whichever occurs first.

DD13 GEN 5 PERFORMANCE CURVE



POWER RATINGS

DD13 Engine Power Ratings

450 HP @ 1625 RPM	1550 lb-ft @ 975 RPM
470 HP @ 1625 RPM	1650 lb-ft @ 975 RPM
505 HP @ 1625 RPM	1850 lb-ft @ 975 RPM
525 HP @ 1625 RPM	1850 lb-ft @ 975 RPM

All data is correct at the time of printing.

ENGINE WARRANTY

STANDARD WARRANTY – INCLUDED WITH EVERY NEW DETROIT-POWERED TRUCK

4 Years – 805,000km – 12,000 hours – 400,000L fuel burn (whichever occurs first)

Detroit warranties are the highest level of coverage available – EW4

- 100% parts and labour coverage with no excess charges
- Warranty also covers aftertreatment system components
- No requirement for mid-life or other component changeouts other than normal maintenance to retain full coverage for standard or extended warranty
- Valid at all authorised Detroit dealers across Australia & New Zealand
- Coverage is transferrable to subsequent owners without fees
- Options available for extended coverage for additional duration, mileage, or increased fuel burn limits to suit your operation

For full details including terms, conditions and exclusions of standard and extended coverage, please contact your Detroit dealer

