

# DETROIT<sup>TM</sup> DD5<sup>TM</sup>

## TECHNICAL SPECIFICATIONS

### THE DETROIT DD5 ENGINE

### THE MOST ADVANCED ENGINE TECHNOLOGIES ENGINEERED TODAY.

This next-generation medium-duty engine delivers unsurpassed efficiency with exceptional endurance. All while achieving the longest maintenance intervals in the industry for maximum uptime.

#### PERFORMANCE

- Meet your deadline every time
  - Sturdy rear gear train and ribbed cast iron block minimizes noise vibration harshness (NVH)
  - Simple fixed-geometry dual-stage turbo provides performance, efficiency, and reliability
  - Robust design provides B10 life of 400,000 miles
  - Integrated engine brake option provides superior braking horsepower to extend service brake life

#### POWER

- Usable power and torque reached at lower engine speeds—ideal for the demands of today's medium duty truck operations

#### COMPLIANCE

- The DD5 is compliant with 2017 Greenhouse Gas (GHG17) requirements
- 2016 On-Board Diagnostics certified

#### ECONOMY

- Smart, fuel-efficient design makes the most of every gallon
  - Advanced common rail fuel system optimizes each injection event to minimize fuel consumption
  - Piston and cylinder design reduces friction and provides optimal combustion
  - Variable cam phasing technology for improved aftertreatment system performance
  - Variable-speed fan and advanced cooling reduce fan on time, contributing to lower fuel consumption.

#### 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<sup>TM</sup> Connect Virtual Technician<sup>SM</sup> remote diagnostic service helps you maximize uptime

#### DD5 SPECIFICATIONS

Configuration .....	Inline 4 Cylinder
Displacement .....	313 cu. in. (5.1 L)
Compression Ratio .....	17.6:1
Bore .....	4.33 in. (110 mm)
Stroke .....	5.3 in. (135 mm)
Weight (Dry) .....	1188 lb. (539 kg.)
Electronics .....	DDEC <sup>®</sup>
Service Fill (Oil & Filter Change) ..	18 qt. (17.5 L)
Horsepower Range .....	210-230
Torque Range .....	575-660



### Maintenance Intervals

Item	Mi / km / Hr†	Severe Duty	Short-Haul	Long-Haul
Engine Oil and Filter Change*	Miles	35,000	45,000	50,000
	Kilometers	56,000	72,000	80,000
	Hours	1000	1500	1700
	Months	12	18	—
Fuel Filter Change	Miles	35,000	45,000	50,000
	Kilometers	56,000	72,000	80,000
	Hours	1000	1500	1700
	Months	12	18	—
Valve Lash Adjustment	Miles	70,000	90,000	100,000
	Kilometers	113,000	145,000	161,900
	Hours	2000	3000	3400
	Months	24	36	—
Diesel Particulate Filter	A check-engine light will illuminate when ash requires removal. Normal DPF ash clean interval is:			
	Miles	< 190,000	190,000-225,000	225,000
	Kilometers	< 306,000	306,000-362,000	362,000
	Hours	< 6300	6300-7500	7500
DEF Pump Filter	Replace every 3 years or 500,000 miles (805,000 km) (10,000 hrs.)			

\* Maintenance intervals using Detroit Fluids Specification 93K222 (CK-4) or 93K223 (FA-4) Approved Oils. Severe duty averages less than 10 miles per gallon (mpg) and operates under severe conditions. Short-haul is up to 60,000 annual miles (96,000 kilometers) and averages between 10.1 and 11.9 mpg. Long-haul is over 60,000 annual miles (96,000 kilometers) and averages greater than 12.0 mpg.

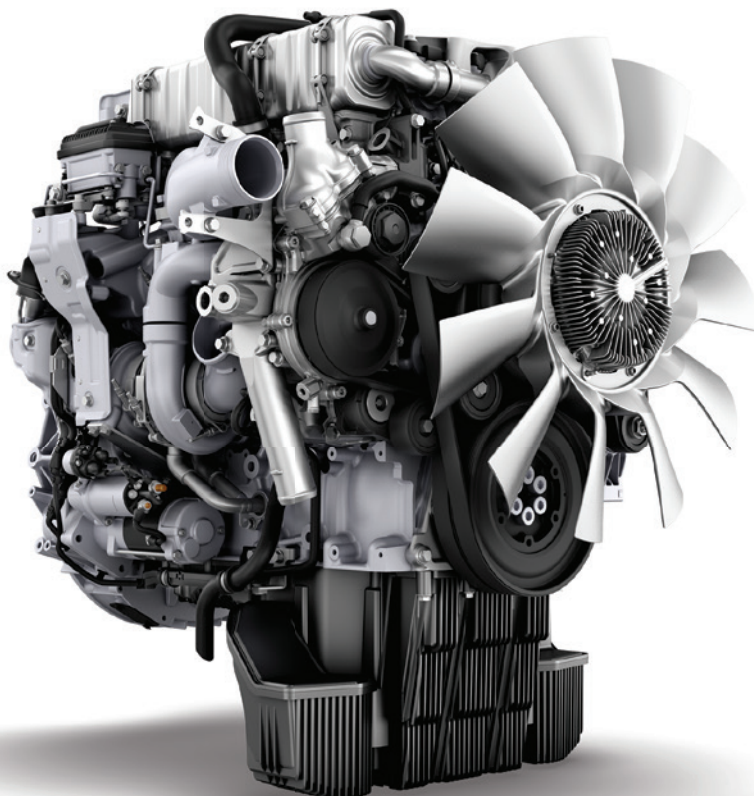
† Miles/Kilometers or time, whichever occurs first.

### Power Ratings

DD5 Engine Power Ratings	
210 HP @ 2200 RPM	575 lb-ft @ 1400 RPM
230 HP @ 2200 RPM	660 lb-ft @ 1400 RPM

### Standard Warranty

Item	Warranty Limits (Whichever Occurs First)		Repair Charge (Paid by Owner)	
	Months	Miles / Kilometers	Parts	Labor
Engine	0-36	250,000 mi 400,000 km	No charge	No charge



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