



# DETROIT™ DD5™

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 and extended 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 pressure system optimizes each injection event to minimize fuel consumption
  - Piston and cylinder design reduce friction and provide 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™ Connect Virtual Technician™ 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®
Service Fill (Oil & Filter Change)	.. 18 qt (17.5 L)
Horsepower Range	..... 210-230
Torque Range	..... 575-660



### Maintenance Intervals

Item	Mi / km	Severe Duty	Short-Haul	Long-Haul
Engine Oil and Filter Change*	Miles	35,000	45,000	50,000
	Kilometers	56,000	73,000	80,000
Fuel Filter Change	Miles	35,000	45,000	50,000
	Kilometers	56,000	73,000	80,000
Valve Lash Adjustment	Miles	Adjust at every 90,000 or 4 years, whichever comes first.		
	Kilometers	Adjust at every 145,000 or 4 years, whichever comes first.		
Diesel Particulate Filter**	A check-engine light will illuminate when ash requires removal.			
	Miles	200,000		
	Kilometers	321,000		
DEF Pump Filter	Replace filter every 3 years or 300,000 (480,000 km) miles, whichever comes first.			

\*Recommended based on using Detroit's lube oil and oil analysis program. Severe duty is up to 35,000 annual miles and a vehicle that averages less than 10 miles per gallon (mpg). Short-haul is between 35,000 and 45,000 annual miles and a vehicle that averages between 10.1 and 11.9 mpg. Long-haul is over 60,000 annual miles and a vehicle that averages greater than 12 mpg.

\*\*Duty cycle dependent

### 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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DEMAND PERFORMANCE™