



# DETROIT™ DD5™

## TECHNICAL SPECIFICATIONS

### THE DETROIT DD5 ENGINE AVAILABLE IN THE SAF-T-LINER® C2 SCHOOL BUS 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 minimize 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 school bus

#### 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 reduce friction and provide optimal combustion control
  - 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)	.. 18.5 qt. (18 L)
Horsepower Range	..... 200-240
Torque Range	..... 560-660



## Maintenance Intervals

Item	Mi/km†	Severe Duty	Short-Haul
Engine Oil and Filter Change*	Miles	35,000	45,000
	Kilometers	56,000	72,000
	Hours	1,000	1,500
Fuel Filter Change	Miles	35,000	45,000
	Kilometers	56,000	72,000
	Hours	1,000	1,500
Valve Lash Adjustment	Miles	70,000	90,000
	Kilometers	113,000	145,000
	Hours	2,300	3,000
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
	Kilometers	<306,000	306,000-362,000
	Hours	<6,300	6,300-7,500
DEF Pump Filter	Replace every 3 years or 500,000 miles (483,000 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.

†Miles/Kilometers or Hours, whichever occurs first.

## Power Ratings

DD5 Engine Power Ratings	
200 HP @ 2200 RPM	560 lb-ft @ 1400 RPM
220 HP @ 2200 RPM	560 lb-ft @ 1400 RPM
240 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	0-60	100,000 mi 160,000 km	No charge	No charge



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DEMAND PERFORMANCE™