



# DETROIT™ DD8™

## TECHNICAL SPECIFICATIONS

### THE DETROIT DD8 ENGINE THE MOST ADVANCED ENGINE TECHNOLOGIES ENGINEERED TODAY.

The latest addition to our new lineup of medium-duty engines provides the versatility you demand along with the efficiency and durability you've come to expect from Detroit.

#### PERFORMANCE

- Simple fixed-geometry turbo design provides performance and reliability
- Robust design for an impressive B10 life of 400,000 miles
- Integrated engine brake option provides superior braking horsepower to extend service brake life
- Rear Engine Power Take-Off (REPTO) and Front Engine Power Take-Off (FEPTO) capability provide the flexibility needed for a variety of vocational applications
- Sturdy rear gear train and ribbed cast-iron block minimize noise vibration harshness (NVH)

#### POWER

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

#### COMPLIANCE

- The DD8 is compliant with 2017 Greenhouse Gas (GHG17) requirements
- 2016 On-Board Diagnostics (OBD) 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 control
  - Variable cam phasing technology for improved aftertreatment system performance
  - Variable-speed fan and advanced cooling reduce fan on time, contributing to reduced 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 and productivity

#### DD8 SPECIFICATIONS

|                                    |                           |
|------------------------------------|---------------------------|
| Configuration                      | ..... Inline 6 Cylinder   |
| Displacement                       | ..... 470 cu. in. (7.7 L) |
| Compression Ratio                  | ..... 17.6:1              |
| Bore                               | ..... 4.33 in. (110 mm)   |
| Stroke                             | ..... 5.3 in. (135 mm)    |
| Weight (Dry)                       | ..... 1437 lb. (652 kg.)  |
| Electronics                        | ..... DDEC®               |
| Service Fill (Oil & Filter Change) | .. 26.9 qt. (25.5 L)      |
| Horsepower Range                   | ..... 260-375*            |
| Torque Range                       | ..... 660-1050            |

\*375 HP Fire & Emergency and RV only.



## Maintenance Intervals

| Item                          | Mi / km / Hr†  | Severe Duty | Short-Haul | Long-Haul |
|-------------------------------|--|-------------|------------|-----------|
| Engine Oil and Filter Change* | Miles  | 45,000      | 55,000     | 60,000    |
|                               | Kilometers   | 72,000      | 88,000     | 96,000    |
|                               | Hours  | 1500        | 1800       | 2000      |
|                               | Months   | 12          | 18         | –         |
| Fuel Filter Change            | Miles  | 45,000      | 55,000     | 60,000    |
|                               | Kilometers   | 72,000      | 88,000     | 96,000    |
|                               | Hours  | 1500        | 1800       | 2000      |
|                               | Months   | 12          | 18         | –         |
| Valve Lash Adjustment         | Miles  | 90,000      | 110,000    | 120,000   |
|                               | Kilometers   | 145,000     | 177,000    | 193,900   |
|                               | Hours  | 3000        | 3600       | 4000      |
|                               | Months   | 24          | 36         | –         |
| Diesel Particulate Filter     | A check-engine light will illuminate when ash requires removal.<br>Normal DPF ash clean interval is every: |             |            |           |
|                               | Miles  | 150,000     |            |           |
|                               | Kilometers   | 241,000     |            |           |
|                               | Hours  | 5000        |            |           |
| 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 6.5 miles per gallon (mpg) and operates under severe conditions. Short-haul is up to 60,000 annual miles (96,000 kilometers) and averages between 6.5 and 8.5 mpg. Long-haul is over 60,000 annual miles (96,000 kilometers) and averages greater than 8.5 mpg.

† Miles/Kilometers or time, whichever occurs first.

## Power Ratings

| DD8 Engine Power Ratings |                        |
|--------------------------|------------------------|
| 260 HP @ 2200 RPM        | 660 lb-ft @ 1400 RPM   |
| 260 HP @ 2200 RPM        | 720 lb-ft @ 1400 RPM   |
| 280 HP @ 2200 RPM        | 800 lb-ft @ 1400 RPM   |
| 300 HP @ 2200 RPM        | 860 lb-ft @ 1400 RPM   |
| 330 HP @ 2200 RPM        | 1000 lb-ft @ 1400 RPM  |
| 350 HP @ 2200 RPM        | 1050 lb-ft @ 1400 RPM  |
| 375 HP* @ 2200 RPM       | 1050 lb-ft* @ 1400 RPM |

\*Fire & Emergency and RV only.

## Standard Warranty

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



1-800-445-1980 • DEMANDDETROIT.COM

DDC-EMC-FLY-0095-1217. Specifications are subject to change without notice. Detroit Diesel Corporation is registered to ISO 9001:2008. Copyright © 2017 Detroit Diesel Corporation. All rights reserved. Detroit™ is a brand of Detroit Diesel Corporation, a Daimler company.

DAIMLER | Detroit - A Daimler Group Brand



**DETROIT™**  
DEMAND PERFORMANCE™