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Service Information Bulletin

SUBJECT	DATE
General Specifications	January 2013

Additions, Revisions, or Updates

Publication Number / Title	Platform	Section Title	Change
DDC-SVC-MAN-0080	DD Platform	General Specifications	Added missing specifications.



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2 General Specifications

The general specifications for the DD Platform Engines are shown below.

Table 1.

Specifications for the DD Platform Engine			
General Specifications	DD13	DD15	DD16
Total Displacement (L)	12.8	14.8	15.6
Number of Cylinders	6	6	6
Valve Control	DOHC	DOHC	DOHC
Number of Valves per Cylinder (Intake/Exhaust)	2/2	2/2	2/2
Idle Speed	600 (rpm)	600 (rpm)	600 (rpm)
Max. Output (kW)	375	418	447
Combustion Pressure Max. (bar)	220	220	220
Compression Ratio	17.3	18:0	17.1
Stroke	156 (mm)	163 (mm)	171 (mm)
Stroke Bore Ratio	1.18	1.17	1.23

Table 2.

Filling Capacity for the EPA10/GHG14 DD Platform Engine			
Truck	DD13	DD15	DD16
Total Dry Engine Oil Volume	44.0 L (46.5 qt)	49.0 L (51.8 qt)	49.0 L (51.8 qt)
Oil and Filter Change	38.0 L (40.1 qt)	43.0 L (45.4 qt)	43.0 L (45.4 qt)
Remaining in Engine after Oil Drain (Includes Filter Removal)	6.0 L (6.3 qt)	6.0 L (6.3 qt)	6.0 L (6.3 qt)
Dip Stick Min. to Max. Range	5.0 L (5.2 qt)	5.0 L (5.2 qt)	5.0 L (5.2 qt)
Sump Oil Volume	35.0 L (37.0 qt)	40.0 L (42.3 qt)	40.0 L (42.3 qt)

Table 3.

Filling Capacity for the EPA07 DD Platform Engine			
Truck	DD13	DD15	DD16
Total Dry Engine Oil Volume	44.0 L (46.5 qt)	49.0 L (51.8 qt)	49.0 L (51.8 qt)
Oil and Filter Change	38.0 L (40.1 qt)	43.0 L (45.4 qt)	43.0 L (45.4 qt)
Remaining in Engine after Oil Drain (Includes Filter Removal)	6.0 L (6.3 qt)	6.0 L (6.3 qt)	6.0 L (6.3 qt)
Dip Stick Min. to Max. Range	5.0 L (5.2 qt)	5.0 L (5.2 qt)	5.0 L (5.2 qt)
Sump Oil Volume	35.0 L (37.0 qt)	40.0 L (42.3 qt)	40.0 L (42.3 qt)

Table 4.

Filling Capacity for the EPA07 DD Platform Engine (Coach)			
Coach	DD13	DD15	DD16
Total Dry Engine Oil Volume	51.0 L (53.8 qt)	NA	NA
Oil and Filter Change	45.0 L (47.6 qt)	NA	NA
Remaining in Engine after Oil Drain (Includes Filter Removal)	6.0 L (6.3 qt)	NA	NA
Dip Stick Min. to Max. Range	5.0 L (5.2 qt)	NA	NA
Sump Oil Volume	42.0 L (44.4 qt)	NA	NA

Table 5.

Piston Specifications for the EPA10/GHG14 DD Platform Engine			
Piston Specifications	DD13	DD15	DD16
Diameter	132 mm (5.197 in.)	139 mm (5.472 in.)	139 mm (5.472 in.)
Total Height	113.5 mm (4.469 in.)	119.5 mm (4.705 in.)	119.5 mm (4.705 in.)
Compression Height	75 mm (2.953 in.)	81.5 mm (3.189 in.)	81.5 mm (3.189 in.)

Table 6.

Piston Specifications for the EPA07 DD Platform Engine		
Piston Specifications	DD13	DD15
Diameter	132 mm (5.197 in.)	139 mm (5.472 in.)
Total Height	113.5 mm (4.469 in.)	124.5 mm (4.902 in.)
Compression Height	75 mm (2.953 in.)	83.5 mm (3.287 in.)

Table 7.

Piston Pin Specifications for the DD Platform Engine			
Piston Pin Specifications	DD13	DD15	DD16
Outside Diameter	58 mm (2.283 in.)	62 mm (2.441 in.)	62 mm (2.441 in.)
Length	88 mm (3.465 in.)	92 mm (3.622 in.)	92 mm (3.622 in.)

Table 8.

Fuel System Specifications for the DD Platform Engine				
	DD13	DD15	DD15 AT	DD16
Rail Pressure Max.	850 bar	900 bar	1150 bar	900 bar
Injection Pressure Max.	2000 bar	2200 bar	2500 bar	2200 bar

Table 9.

Crankshaft Bearing Specifications for the DD Platform Engine			
Crankshaft Bearing Specifications	DD13	DD15	DD16
Diameter	114 mm (4.488 in.)	120 mm (4.724 in.)	120 mm (4.724 in.)
Width	36 mm (1.417 in.)	39.5 mm (1.555 in.)	39.5 mm (1.555 in.)

Table 10.

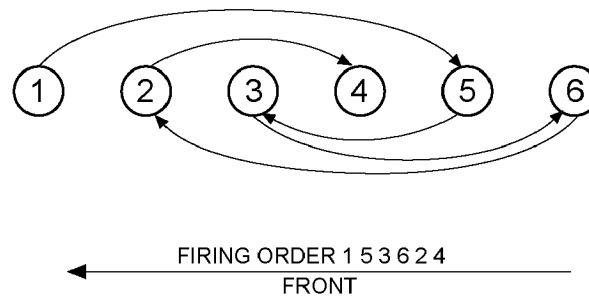
Connecting Rod Specifications for the DD Platform Engine			
Connecting Rod Specifications	DD13	DD15	DD16
Length	268 mm (10.55 in.)	276 mm (10.87 in.)	274 mm (10.78 in.)

Table 11.

Connecting Rod Bearing Specifications for the DD Platform Engine			
Connecting Rod Bearing Specifications	DD13	DD15	DD16
Diameter	95 mm (3.74 in.)	100 mm (3.937 in.)	100 mm (3.937 in.)
Width	36.4 mm (1.433 in.)	39.5 mm (1.555 in.)	39.5 mm (1.555 in.)

Table 12.

Cylinder Block Specifications for the DD Platform Engine			
Cylinder Block Specifications	DD13	DD15	DD16
Cylinder Diameter (mm)	132 mm (5.197 in.)	138.6 mm (5.456 in.)	138.6 mm (5.456 in.)
Cylinder Clearance (mm)	165 mm (6.496 in.)	173 mm (6.811 in.)	173 mm (6.811 in.)



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Figure 1. Cylinder Designation and Firing Order