7.3L DIESEL ENGINE MECHANICAL SPECIFICATIONS

Description	English Specifications	Metric Specifications
Oil pump, oil cooler and oil capacity		
Oil pump pressures		
Curb idle:	10 psi	69 kPa
3300 rpm:	40-70 psi	276-483 kPa
Engine oil capacity		
U.S. quarts: 14		
Imperial quarts: 11.6		
Litres: 13.2		
Oil pump drive gear radial clearance:	0.012-0.032	0.305-0.813
Oil pump drive gear end clearance:	0.001-0.003	0.025-0.0762

1 Unless otherwise specified with a different measurement (for example, psi, kPa, lbs., N, etc.)
2 With bearing caps tightened in place
3 Valve seat angle: intake: 30 degrees, exhaust: 37.5 degrees
4 Service limit: 0.005 in. (0.127mm)
5 Time required for plunger to leak down 0.125 in. (3.175mm) under load of 50 lbs. (22.5 kg) using leak down fluid in tappet
6 Measured at the valve tip to rocker arm
7 Service limit: 10 percent loss pressure
8 Service limit: 0.005 in. (0.127mm)
9 With bearing caps tightened in place
10 Pin bushing and crankshaft bore must be parallel and in the same vertical plane with specified total difference when measured at at the ends of an 8-inch long bar, 4 inches on each side of the rod centerline
11 Measured at 90 degrees to the pin, at 1.25 in. (31.75mm) below the oil ring groove
12 Service limit: 0.002 in. (0.0508mm) maximum increase in clearance
13 Distance in inches/millimeters that the front edge of the bearing is installed below the front face of the cylinder block
14 All camshaft journals are 2.099-2.100 in. (53.315-53.340mm)

7.5L ENGINE MECHANICAL SPECIFICATIONS

Description	Footnotes	English Specifications (in.)	Metric Specifications (mm)
Cylinder Block			
Cylinder bore			
Standard size:		4.360-4.364	110.744-110.846
Maximum out-of-round:		0.00150	0.03810
Maximum taper:		0.01000	0.25400
Main bearing			
Bore diameter:		3.1922-3.1934	81.082-81.112
Distributor shaft bearing bore diameter:		0.5160-0.5175	13.106-13.145
Head gasket surface flatness:			
Overall:		0.00600	0.15240
In any 6 in. (152.4mm):		0.00300	0.07620
Head gasket Surface finish (RMS):		90-150	-
Tappet bore diameter:		0.8752-0.8767	22.230-22.690
Cylinder Head			
Combustion chamber volume	2	5.84-6.02 cid	95.70-98.70 cc
Valve guide bore diameter			
Intake:		0.3433-0.3443	8.719-8.745
Exhaust:		0.3433-0.3443	8.719-8.745
Valve seat	3		
Maximum runout:		0.00200	0.00508
Gasket surface finish (RMS):		60-150	
Width			
Intake:		0.060-0.080	1.524-2.032
Exhaust:		0.060-0.080	1.524-2.032
Gasket surface flatness			
Overall:		0.00600	0.15240
In any 6 in. (152.4mm):		0.00300	0.07620
Valve Rocker Arm Shaft, Pushrods and Tappets			
Rocker arm lift ratio to 1:1.73			
Pushrod runout TIR maximum:		0.01500	0.38100
Valve tappet or lifter			
Standard diameter:		0.8740-0.8745	22.1990-22.2120
Clearance to bore:	4	0.0007-0.0027	0.0178-0.0068
Hydraulic lifter leakdown rate:	5	10 to 50 seconds for 1/16 travel	
Collapsed tappet gap			
Allowable:		0.075-0.175	1.905-4.445
Desired:		0.100-0.150	2.540-3.810
Valves			
Valve stem to guide clearance			
Intake:		0.0010-.0027	0.00254-0.0686
Exhaust:		0.0010-.0027	0.00254-0.0686