7.3L DIESEL ENGINE MECHANICAL SPECIFICATIONS

Description		English Specifications	Metric Specifications
Crankshaft and Flywheel (cont'd)			
0.02:		2.478-2.479	62.9412-62.9666
0.03:		2.468-2.469	62.6872-62.7126
Taper per inch/mm maximum:		0.00026	0.0066
Crankshaft end-play:		0.0025-0.0085	0.063-0.216
Flywheel and ring gear runout:		0.0080	0.2032
Flywheel and ring gear concentricity:		0.0080	0.2032
Crankshaft Bearings			
Connecting rod bearing to crankshaft clearance selective fit			
Desired:		0.0015-0.0045	0.0381-0.1140
Allowable:		0.0011-0.0036	0.0279-0.09144
Main bearing to crankshaft selective fit			
Desired:		0.0018-0.0036	0.0457-0.0914
Allowable		0.0018-0.0046	0.0457-0.1168
Connecting rods			
Piston pin bushing bore I.D.:		1.432-1.433	36.373-36.398
Rod bearing bore I.D.:	9	2.5005-2.5025	63.513-63.564
Connecting rod bore max. out of round:		0.0005	0.0127
Connecting rod bore max. taper:		0.0005	0.0127
Connecting rod alignment maximum total difference			
Twist:	10	0.0020	0.0508
Bend:	10	0.0020	0.0508
Rod to crankshaft assembled side clearance:		0.012-0.024	0.3048-0.6096
Crankpin bearing bore diameter:		2.6905-2.6915	68.339-68.364
Pistons			
Diameter	11		
Standard piston:		4.1045-4.1050	104.2543-104.2670
Piston to bore clearance selective fit:		0.0044-0.0057	0.112-0.149
Piston pin bore diameter:		1.3075-1.3095	33.2105-33.2613
Piston height above crankcase:		0.010-0.031	0.254-0.787
Oversize			
0.01:		4.1148	104.5146
0.02:		4.1248	104.7686
0.03:		4.1348	105.0226
Piston pins			
Length:		2.99-3.00	75.94-76.20
Diameter:		1.3079-1.3081	33.220-33.226
To piston pin bore clearance (selective fit):		0.0003-0.0007	0.00762-0.01778
To connecting rod bushing clearance:		0.0004-0.0009	0.0102-0.0229
Piston rings			
Side clearance (2nd ring only):		0.002-0.004	0.0508-0.1016
Ring gap			
Top compression:		0.014-0.024	0.35-0.61
Bottom compression:		0.062-0.072	1.57-1.83
Oil:		0.012-0.024	0.305-0.610
Oversize			
0.01:		4.1200	104.6480
0.02:		4.1300	104.9020
0.03:		4.1400	105.1560
Exhaust manifold			
Maximum allowable warpage			
Between ports:		0.0050	0.1300
Total:		0.0100	0.2500
Maximum allowable removal of material:		0.0100	0.2500
Camshaft			
End-play:		0.002-0.008	0.051-0.203
Camshaft journal to bearing clearanc	12	0.002-0.006	0.051-0.165
Lobe lift			
Intake:		0.2535	6.4390
Exhaust:		0.2531	6.4290
Camshaft front bearing location:		0.0020-0.0500	0.508-1.270
Gear backlash:		0.0055-0.010	0.140-0.256
Camshaft drive			
Bearing inside diameter	13		
No. 1:		2.102-2.105	53.39-53.48
No. 2:		2.102-2.105	53.39-53.48
No. 3:		2.102-2.105	53.39-53.48
No. 4:		2.102-2.105	53.39-53.48
No. 5:		2.102-2.105	53.39-53.48
Camshaft front bearing location:	14	0.020-0.050	0.508-1.270
Gear backlash:		0.0055-0.0100	0.140-0.256