ENGINE MECHANICAL

SERVICE DATA

SS0ZE–04

Idle speed			650 – 750 rpm
Maximum speed			4,450 – 4,750 rpm
Cylinder head	Valve seat		
	Refacing angle	Intake	30˚ 45˚ 60˚
		Exhaust	30˚ 45˚ 60˚
	Contacting angle		45˚
	Contacting width	Intake	1.5 – 1.9 mm (0.059 – 0.075 in.)
		Exhaust	1.8 – 2.2 mm (0.071 – 0.087 in.)
Valve	Valve face angle		44.5˚
	Margin thickness	STD Intake	1.6 mm (0.063 in.)
		Exhaust	1.7 mm (0.067 in.)
		Minimum Intake	1.1 mm (0.043 in.)
		Exhaust	1.2 mm (0.047 in.)
	Overall length	STD	103.29 – 103.69 mm (4.0665 – 4.08323 in.)
		Minimum	102.79 (4.0468 in.)
Cylinder block	Cylinder bore diameter	STD Mark 1	96.000 – 96.010 mm (3.7795 – 3.7799 in.)
		Mark 2	96.010 – 96.020 mm (3.7799 – 3.7803 in.)
		Mark 3	96.020 – 96.030 mm (3.7803 – 3.7807 in.)
		Maximum	96.23 mm (3.7886 in.)
	Main journal bore diameter	STD Mark 1	75.000 – 75.006 mm (2.9528 – 2.9530 in.)
		Mark 2	75.006 – 75.012 mm (2.9530 – 2.9532 in.)
		Mark 3	75.012 – 75.018 mm (2.9532 – 2.9535 in.)
Piston and piston ring	Piston diameter	STD Mark 1	95.940 – 95.950 mm (3.7772 – 3.7776 in.)
		Mark 2	95.950 – 95.960 mm (3.7776 – 3.7779 in.)
		Mark 3	95.960 – 95.970 mm(3.7779 – 3.7783 in.)
		O/S 0.50	96.440 – 96.470 mm(3.7968 – 3.7980 in.)
		O/S 0.75	96.690 – 96.720 mm(3.8067 – 3.8079 in.)
		O/S 1.00	96.940 – 96.970 mm(3.8165 – 3.8177 in.)
	Piston oil clearance	STD	0.050 – 0.070 mm (0.0020 – 0.0028 in.)
		Maximum	0.14 mm (0.0055 in.)
	Piston ring grove clearance	No. 1	0.060 – 0.110 mm (0.0024 – 0.0043 in.)
		No. 2	0.060 – 0.100 mm (0.0024 – 0.0039 in.)
		Oil	0.020 – 0.060 mm (0.0009 – 0.0024 in.)
	Piston ring end gap	STD No. 1	0.350 – 0.570 mm (0.0138 – 0.0224 in.)
		No. 2	0.400 – 0.600 mm (0.0157 – 0.0236 in.)
		Oil	0.200 – 0.500 mm (0.0079 – 0.0197 in.)
		Limit No.1	1.03 mm (0.0406 in.)
		No. 2	1.10 mm (0.0433 in.)
		Oil	0.87 mm (0.0343 in.)
Crankshaft	Main journal oil clearance	STD	0.036–0.054 mm (0.0014 – 0.0021 in.)
		Maximum	0.10 mm (0.0039 in.)
	Main journal diameter	STD Mark 1	69.994 – 70.000 mm (2.7557 – 2.7559 in.)
		Mark 2	69.988 – 69.994 mm (2.7554 – 2.7557 in.)
		Mark 3	69.982 – 69.988 mm (2.7552 – 2.7554 in.)
	Main bearing center wall thickness (Reference)		
		STD Mark 2	2.482 – 2.485 mm (0.0977 – 0.0978 in.)
		Mark 3	2.485 – 2.488 mm (0.0978 – 0.0980 in.)
		Mark 4	2.488 – 2.491 mm (0.0980 – 0.0981 in.)
		Mark 5	2.491 – 2.494 mm (0.0981 – 0.0982 in.)
		Mark 6	2.494 – 2.497 mm (0.0982 – 0.0983 in.)