Item	Unit	Data		
		DF200T/Z/WT/WZ	DF225T/Z/WT/WZ	DF250T/Z

POWERHEAD

Recommended operating range	r/min	5000 – 6000	5000 – 6000	5500 – 6100
Idle speed	r/min	650 ± 50 (in-gear: Approx. 650)		
* Cylinder compression	kPa (kg/cm², psi)	1100 – 1700 (11 – 17, 156 – 242)		
* Cylinder compression max. difference between any other cylinders	kPa (kg/cm², psi)	100 (1.0, 14)		
* Engine oil pressure	kPa (kg/cm², psi)	400 – 600 (4.0 – 6.0, 57 – 85) at 3000 r/min (at normal operating temp.)		
Engine oil		API classification SE, SF, SG, SH, SJ Viscosity rating SAE 10W-40		
Engine oil amounts	L (US/lpm. qt))	8.0 (8.5/7.0) : Oil change only 8.2 (8.7/7.2) : Oil filter change		
Thermostat operating temperature	°C (°F)	58 – 62 (136 – 144)		

* Figures shown are guidelines only, not absolute service limits.

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Item			Unit	Data		
				DF200T/Z/WT/WZ	DF225T/Z/WT/WZ	DF250T/Z

CYLINDER HEAD/CAMSHAFT

Cylinder head distortion		Limit	mm (in)	0.03 (0.001)		
Manifold seating faces distortion		Limit	mm (in)	0.10 (0.004)		
Cam height	IN	STD	mm (in)	43.020 – 43.180 (1.6937 – 1.7000)	42.420 – 42.580 (1.6701 – 1.6764)	44.920 – 45.080 (1.7685 – 1.7748)
		Limit	mm (in)	42.920 (1.6898)	42.320 (1.6661)	44.820 (1.7646)
	EX	STD	mm (in)	43.620 – 43.780 (1.7173 – 1.7236)	43.620 – 43.780 (1.7173 – 1.7236)	44.420 – 44.580 (1.7488 – 1.7551)
		Limit	mm (in)	43.520 (1.7134)	43.520 (1.7134)	44.320 (1.7449)
Camshaft journal oil clearance	Top, 2nd, 3rd, 4th	STD	mm (in)	0.043 – 0.085 (0.0017 – 0.0033)		
		Limit	mm (in)	0.120 (0.0047)		
Camshaft journal (housing) inside diameter	Top, 2nd, 3rd, 4th	STD	mm (in)	26.000 – 26.021 (1.0236 – 1.0244)		
		Limit	mm (in)	—		
Camshaft journal outside diameter	Top, 2nd, 3rd, 4th	STD	mm (in)	25.936 – 25.957 (1.0211 – 1.0219)		
		Limit	mm (in)	—		
Camshaft runout		Limit	mm (in)	0.10 (0.004)		
Cylinder head bore to tappet clearance		STD	mm (in)	0.025 – 0.066 (0.0010 – 0.0026)		
		Limit	mm (in)	0.150 (0.0059)		
Tappet outer diameter		STD	mm (in)	33.959 – 33.975 (1.3370 – 1.3376)		
Cylinder head bore		STD	mm (in)	34.000 – 34.025 (1.3386 – 1.3396)		

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Item			Unit	Data		
				DF200T/Z/WT/WZ	DF225T/Z/WT/WZ	DF250T/Z

VALVE/VALVE GUIDE

Valve diameter		IN	mm (in)	35.9 (1.41)
		EX	mm (in)	31.4 (1.24)
Tappet clearance (Cold engine condition)	IN	STD	mm (in)	0.23 – 0.27 (0.009 – 0.011)
	EX	STD	mm (in)	0.33 – 0.37 (0.013 – 0.015)
Valve seat angle	IN		—	15°, 45°, 60°
	EX		—	15°, 45°, 60°
Valve guide to valve stem clearance	IN	STD	mm (in)	0.020 – 0.047 (0.0008 – 0.0019)
		Limit	mm (in)	0.070 (0.0028)
	EX	STD	mm (in)	0.045 – 0.072 (0.0018 – 0.0028)
		Limit	mm (in)	0.090 (0.0035)
Valve guide inside diameter	IN, EX	STD	mm (in)	5.500 – 5.512 (0.2165 – 0.2170)
Valve guide protrusion	IN, EX	STD	mm (in)	11.4 – 11.8 (0.45 – 0.46)
Valve stem outside diameter	IN	STD	mm (in)	5.465 – 5.480 (0.2152 – 0.2157)
	EX	STD	mm (in)	5.440 – 5.455 (0.2142 – 0.2148)
Valve stem deflection	IN	Limit	mm (in)	0.14 (0.006)
	EX	Limit	mm (in)	0.18 (0.007)
Valve stem runout	IN, EX	Limit	mm (in)	0.05 (0.002)
Valve head radial runout	IN, EX	Limit	mm (in)	0.08 (0.003)
Valve head thickness	IN	STD	mm (in)	1.1 (0.04)
		Limit	mm (in)	0.7 (0.03)
	EX	STD	mm (in)	1.05 (0.04)
		Limit	mm (in)	0.7 (0.03)
Valve seat contact width	IN	STD	mm (in)	1.1 – 1.3 (0.04 – 0.05)
	EX	STD	mm (in)	1.1 – 1.3 (0.04 – 0.05)
Valve spring free length		STD	mm (in)	40.2 (1.58)
		Limit	mm (in)	38.6 (1.52)
Valve spring tension		STD	N (kg, lbs)	150 – 177 (15.0 – 17.7, 33.1 – 39.0) for 31.1 mm (1.22 in)
		Limit	N (kg, lbs)	139 (13.9, 30.6) for 31.1 mm (1.22 in)
Valve spring squareness		Limit	mm (in)	2.0 (0.08)

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