Diesel Engines 8V/10V 2000 M93

for Fast Vessels with Low Load Factors (1DS)



Typical applications:

Fast yachts, fast patrolboats, police craft and fire-fighting vessels

Engine Model		8V 2000 M93	10V 2000 M93
Rated power ICFN	kW (bhp)	895 (1200)	1120 (1500)
Speed	rpm	2450	2450
No. of cylinders		8	10
Bore/stroke	mm (in)	135/156 (5.4/6.1)	135/156 (5.4/6.1)
Displacement, total	I (cu in)	17.9 (1093)	22.3 (1361)
Flywheel housing		SAE 1	SAE 1
Gearbox model		ZF 550 A	ZF 2050 A
		i = 1.5 - 2.5	i = 1.5 - 2.5

Performance and Fuel Consumption		8V 2000) M93			10V 20	00 M93		
Speed	rpm	2450	2200	2000	1200	2450	2200	2000	1200
Maximum power	kW	895	860	800	375	1120	1080	1000	475
	bhp	1200	1155	1075	505	1500	1450	1340	635
Power on propeller curve (n³)	kW	895	650	485	105	1120	820	615	135
	bhp	1200	870	650	140	1500	1100	825	180
Fuel consumption	g/kWh	215	212	215	222	214	217	213	220
on propeller curve 1)	I/h	231.8	166.0	125.6	28.1	288.8	214.4	157.8	35.8
	gal/h	61.2	43.7	33.2	7.4	76.3	56.6	41.7	9.5

¹⁾ Tolerance +5% per ISO 3046, Diesel fuel to DIN EN 590 with a min L.H.V. of 42800kJ/kg (18390 BTU/lb)



Standard Equipment	
Starting System	Electric starter 24 V
Auxiliary PTO	Charging generator, 80A, 28V, 2 pole
Oil System	Gear driven lube oil pump, lube-oil duplex filter with diverter valve, lube-oil heat exchanger, handpump for
	oil extraction
Fuel System	Fuel feed pump, fuel hand pump, fuel pre-filter, fuel main filter with diverter valve, on-engine fuel oil cooler,
	HP fuel pump, jacketed HP fuel lines, injection nozzles
	(CR system), flame proof hose lines, leak-off fuel tank level monitored
Cooling System	Coolant-to-raw water plate core heat exchanger, self priming centrifugal raw water pump, gear driven coo-
	lant circulation pump
Combustion Air System	Sequential turbocharging with 2 water-cooled exhaust-gas turbochargers, on-engine set of combustion-air
	filters
Exhaust System	Triple-walled, liquid-cooled, on-engine exhaust manifolds, single centrally located exhaust outlet, 1 exhaust
	bellows vertical discharge
Mounting System	Resilient mounts at free end
Engine Management System	Engine and gearbox control and monitoring system (ADEC)

Optional Equipment	
Auxiliary PTO	Charging generator, 140A, 28V, 2 pole, bilgepump, on-engine PTOs
Fuel System	Duplex fuel pre-filter
Cooling System	Coolant preheating system, integr. seawater gearbox piping
Exhaust System	1 exhaust bellows horizontal discharge
Mounting System	Resilient mounts at driving end
Monitoring / Control System	smartline, blueline
Power Transmission	Torsionally resilient coupling
Gearbox Options	Reverse reduction gearbox, el. actuated, gearbox mounts, trolling mode for dead-slow propulsion, free auxi-
	liary PTO, hydraulic pump drives

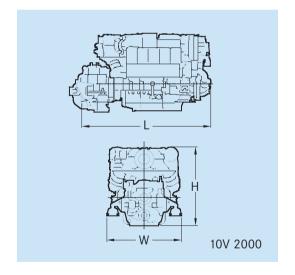
Power definition according ISO 3046 Intake air temperature 25°C / Sea water temperature 25°C Intake air depression 15 mbar / Exhaust back pressure 30 mbar Barometric pressure 1000 mbar Power reduction at $45^{\circ}\mathrm{C}/32^{\circ}\mathrm{C}$: none All engines fulfil IMO emission regulation, certificate on request All engines EPA Tier 2 certified.

Dimensions and Masses (incl. gearbox)				
Engine M	lodel	8V 2000 M93	10V 2000 M93	
Length [L]	mm (in)	2055 (80.9)	2255 (88.8)	
Width [W]	mm (in)	1130 (44.5)	1130 (44.5)	
Height [H]	mm (in)	1200 (47.2)	1230 (48.4)	
Mass [dry]	kg (lbs)	2550 (5622)	2900 (6393)	

Specifications are subject to change without notice.

All dimensions are approximate, for complete information refer to installation drawing.

For further information consult your MTU or MTU Detroit Diesel distributor/dealer.



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