

Technical Data D4-260I (inboard)

Rating 5 260 hp (191 kW)

General

4-stroke direct injected, turbocharged and aftercooled diesel engine

Number of cylinders		4
No of valves		16
Displacement, total	litres	3,67
	in ³	223,7
Firing order		1-3-4-2
Rotational direction, viewed from the front		Clockwise
Bore	mm	103
	in	4,06
Stroke	mm	110
	in	4,33
Compression ratio		17,5:1
Maximum forward inclination installed:	°	0
Maximum backward inclination installed:	°	10
Max. intermittent forward inclination while running:	°	10
Max. intermittent backward inclination while running:	°	20
Max. intermittent side tilt while running:	°	30 for max 30 sec.
Idling speed	rpm	700 - 750
Rated speed	rpm	3500
Propeller selection range	rpm	3400-3600
Dry weight engine BT	kg	482
	lb	1063
Dry weight with reverse gear: HS63AE	kg	558
	lb	1230
Dry weight with reverse gear: HS63VE	kg	594
	lb	1310

Performance	Rating	r/min	1500	2000	2500	3000	3500				
Crankshaft power 1), 5)	5	kW	54	113	161	187	191				
		hp	73,44	153,7	219	254,3	259,8				
Propellershaft power 1) For HS63AE	5	kW	53,5	112	159	184	186				
		hp	72,76	152,3	216,2	250,2	253				
Propellershaft power at prop.load x ^{2,5} For HS63AE	5	kW	22	46	80	127	186				
		hp	30	63	109	173	253				
Propellershaft power at prop.load x ³ For HS63AE		kW	15	35	68	117	186				
		hp	20	48	92	159	253				
Torque at crankshaft 2)	5	Nm	343,8	539,5	615	595,2	521,1				
		lbf ft	254	398	454	439	384				
Mean piston speed		m/s	5,5	7,3	9,2	11,0	12,8				
		ft/s	18,0	24,1	30,1	36,1	42,1				
Effective mean pressure 2)	5	MPa	1,18	1,85	2,11	2,04	1,79				
		psi	170,9	268,2	305,7	295,9	259,1				
Max combustion pressure 2)	5	MPa	17,5	17,4	17,6	17,6	17				
		psi	2538	2524	2553	2553	2466				

1) ISO 3046, fuel temp 40°C.

ISO 8665 (=SAE J 1228=ICOMIA 28-83)

2) At power according to 1).

3) If reverse gear is used, 4% in heat rejection will be added for its oil cooler.

4) Acc. to ISO 3744

5) At installed back pressure

Technical Data D4-260I-B (inboard)

Rating 5 260 hp (191 kW)

Lubricating system

Specific lubricating oil consumption.		g/kWh	0,2						
Max oil volume incl. filters at following inclination:	0°	litres	12,5						
		US gal	3,30						
Min oil volume incl. filters at following inclination:	0°	litres	11						
		US gal	2,91						

Fuel system

	Rating	r/min	1500	2000	2500	3000	3500					
Specific fuel consumption 2)	5	g/kWh	238	233	209	214	231					
		lb/hph	0,386	0,377	0,339	0,347	0,374					
Fuel consumption at prop. load x ^{2,5}	5	l/h	6,4	12,3	21,3	33,6	52,3					
		US gal/h	1,7	3,2	5,6	8,9	13,8					
Fuel consumption at prop. load x ³	5	l/h	4,3	9,7	18,3	31,1	52,3					
		US gal/h	1,1	2,6	4,8	8,2	13,8					
Fuel consumption at full load	5	l/h	15,25	31,23	39,92	47,47	52,34					
		US gal/h	4,0	8,3	10,5	12,5	13,8					

Intake and exhaust system

	Rating	r/min	1500	2000	2500	3000	3500						
Exhaust temperature at the exhaust pipe connecting flange after the turbo charger. At prop.load exp. 2,5	5	°C	250	330	370	365	432						
		°F	482	626	698	689	810						
Permitted back pressure in the exhaust line at rated speed. (Installed back pressure)		kPa						Max	25				
		psi							3,6				
		kPa						Min	10				
		psi							1,5				
Engine air consumption at 25°C / 77°F atmospheric pressure 100kPA and relative humidity 30%.	5	m³/min cu.ft./min					15 529,7						
Turbo charge pressure. At prop.load exp.2,5	5	kPa	10	21	60	127	194						
		psi	1,5	3,0	8,7	18,4	28,1						
Exhaust gas flow	5	m³/min					31						
		cu.ft./min					1095						

Cooling system

	Rating	r/min	1500	2000	2500	3000	3500						
Sea water pump flow.		m³/h					9,0						
		foot³/h					318						
Coolant content engine, incl. heat exchangers and air cooler		litres	13										
		U.S. gal.	3,43										
Thermostat, start open at		°C	82										
		°F	180										
Thermostat, fully open at		°C	92										
		°F	198										

Emissions

	Rating	r/min	1500	2000	2500	3000	3500					
Smoke at prop. load x ^{2,5}	5	BSU	0,3	0,2	0,2	0,2	0,7					
Smoke at prop. load x ³	5	BSU	0,3	0,2	0,2	0,2	0,7					

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