

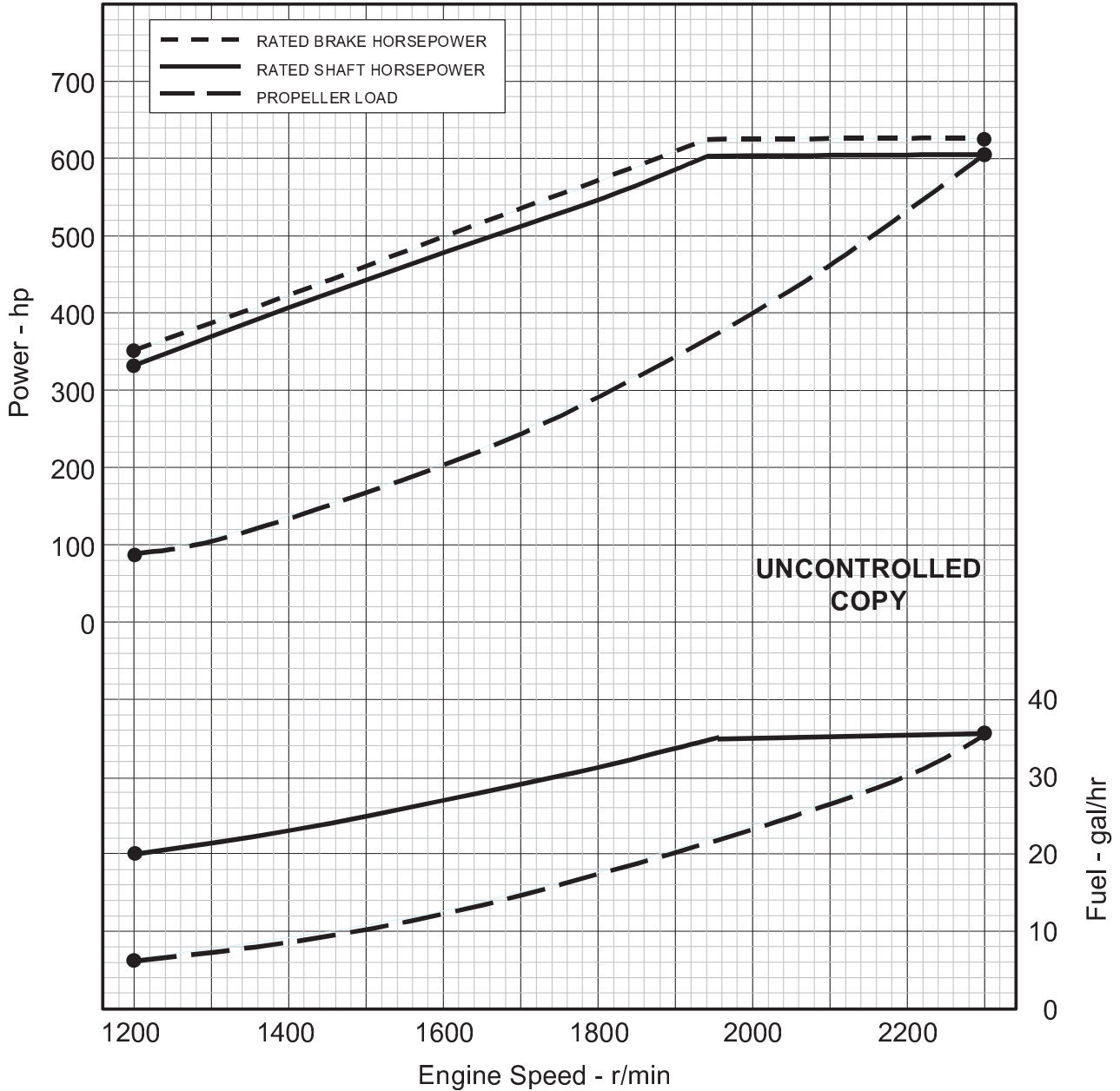


Marine Power

Model: 6V-92TIA

Rating: 625 bhp (466 kW) @ 2300 r/min
605 shp (451 kW) @ 2300 r/min

Maximum
Net Power



<p>Power output guaranteed within 5% SAE J1228 conditions: 77°F (25°C) air inlet temperature; 29.31 in. Hg (99kPa) dry barometer; 100°F (38°C) fuel inlet temperature; .853 specific gravity at 60°F. Power rated in accordance with NMMA Procedure Air intake restriction: 10 in. H₂O (2.5 kPa) Exhaust Back Pressure: 15 in. H₂O (3.7 kPa)</p>	<p><i>Conversion Factors:</i> Power: kW = bhp x 0.746 Fuel: kg/kW • hr = lb/bhp • hr x 0.608 Torque: N • m = lb • ft x 1.356</p>	<p>Turbo: TD13MT45QRC22V19CM2 Injector: 5236672 Accessories: DD5091V Gear Alternator: 24V, 75A Raw Water Pump: Included</p>
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Certified by: *JR Lebringer*

Curve No. E4-8062-32-20
Rev. / Date: 6 / 12-23-97
Sheet No. 1 of 2

Performance Curve

MARINE SPECIFICATION SHEET

General Data

Model.....	8062-7K10, -7K11	
Number of Cylinders.....	6	
Bore and Stroke – in. x in. (mm x mm).....	4.84 x 5.00 (123 x 127)	
Displacement – in. ³ (L).....	552 (9.05)	
Compression Ratio.....	15.0:1	
Piston Speed – ft/min (m/min).....	1917 (584)	
Exhaust Valves.....	4	
Combustion System.....	DIRECT INJECTION	
Engine Type.....	63.5° VEE 2 Cycle	
Aspiration.....	TURBOCHARGED	

Configuration

Injection Device.....	EUI	
Turbocharger.....	TD13MT45QRC22V-19CM2	
Charge Air Cooling System.....	JWAC w/ Boost & Intcfr	
Blower Type.....	100% Maxi Bypass	
Blower Drive Ratio.....	2.60:1	
Low Idle Speed – r/min.....	425	
Maximum No Load Speed – r/min.....	2400	
Engine Crankcase Vent System.....	OPEN	

Physical Data

Size:	WITH GEAR	WITHOUT GEAR
Length – in. (mm).....	63.2 (1605)	61.42 (1560)
Width – in. (mm).....	45.3 (1150)	45.3 (1150)
Height – in. (mm).....	46.0 (1169)	46.0 (1169)
Weight, Dry – lb (kg).....	3343 (1516)	2858 (1296)
Weight, Wet – lb (kg).....	3562 (1616)	3059 (1388)
Center of Gravity Distance:		
From R.F.O. Flg/Blk. (x axis) – in. (mm).....	29.5 (749)	9.46 (240)
Above Output Shaft (y axis) – in. (mm).....	17.4 (442)	13.28 (337)
Right of Output Shaft (z axis) – in. (mm).....	-1.65 (41.9)	-1.74 (-44)
Installation Drawing.....	23519277	

Mechanical Data

Marine Gear

Type.....	DD5091V	
Reduction Ratio.....	1.71:1	
Lube Oil Capacity – qt (L).....	9.6 (9.1)	
(marine gear must use straight viscosity oil)		
Gear Weight, Dry – lb (kg).....	485 (220)	
Center of Gravity Distance:		
From R.F.O. Flange (x axis) – in. (mm).....	8.26 (210)	
Above Output Shaft (y axis) – in. (mm).....	11.5 (292)	
Right of Output Shaft (z axis) – in. (mm).....	-1.19 (-30.2)	

Fuel System

Fuel Injector Part Number.....	5236672	
Injection Timing Height – in.....	1.460	
Fuel Consumption – lb/hr (kg/hr).....	249.3 (113.1)	
Fuel Spill Rate gal/hr (L/hr).....	77.0 (291.5)	
Total Fuel Flow gal/hr (L/hr).....	112.7 (426.5)	
Maximum Fuel Inlet Temperature – °F (°C).....	140 (60)	
Maximum Fuel Pump Suction:		
Clean System – in. Hg (kPa).....	6 (20.3)	
Dirty System – in. Hg (kPa).....	12 (41)	
Fuel Filter Size, Primary – Microns.....	30	
Fuel Filter Size, Secondary – Microns.....	8	
Recommended Supply Line I.D. – in. (mm).....	0.5 (12.7)	

Lubrication System

Oil Pressure at Rated Speed – lb/in. ² (kPa).....	49-70 (338-483)	
Oil Pressure at Low Idle – lb/in. ² (kPa).....	5.0 (34)	
In Pan Oil Temperature – °F (°C).....	200 – 250 (93 – 121)	
Oil Flow – gal/min (L/min).....	39 (148)	
Oil Pan Capacity at Installation Angle	0°	15°
High Limit – qt (L).....	19.2 (18.2)	18.2 (17.2)
Low Limit – qt (L).....	14.2 (13.4)	16.3 (15.4)
Total Engine Oil Capacity with Filters – qt (L).....	21.2 (20.1) 20.2 (19.1)	
Maximum Installation Angle – Degrees.....	15.0	

Electrical System

Recommended Battery Capacity (CCA @ 0°F):	
12 Volt System, Above 32°.....	1900
12 Volt System, Below 32°.....	2500
24 Volt System, Above 32°.....	950
24 Volt System, Below 32°.....	1250
Maximum Resistance of Starting Circuit:	
12 Volt System – ohms.....	0.0012
24 Volt System – ohms.....	0.002

Cooling System

Engine Heat Rejection – Btu/min (kW).....	22110 (388.8)	
Boost Cooler Heat Rejection – Btu/min (kW).....	3120 (54.9)	
Engine Radiated Heat – Btu/min (kW).....	1060 (18.6)	
Coolant Flow:		
Fresh Water Flow – gal/min (L/min).....	185 (700)	
Raw Water Flow – gal/min (L/min).....	92 (348)	
Maximum Water Pump:		
Inlet Restriction – in. Hg (kPa).....	3.0 (10.2)	5.0 (17.0)
Fresh Water Capacity – qt (L).....	76 (71.9)	
Maximum Coolant Pressure		
(Exclusive of Pressure Cap) – lb/in. ² (kPa).....	18 (124)	
Maximum Raw Water Pump Pressure – lb/in. ² (kPa).....	14 (97)	
Maximum Top Tank Temperature – °F (°C).....	210 (99)	
Recommended Raw Water Pipe I.D.		
Inlet – in. (mm).....	4.0 (152)	
Outlet – in. (mm).....	3.0 (76)	
Recommended Sea Strainer Size:		
(Max. Screen Opening – 2.0 mm)		
Simplex – in. (mm).....	3.0 (76)	
Duplex – in. (mm).....	4.0 (102)	

Air System

Maximum Temperature Rise	
(Ambient Air to Engine Inlet) – °F (°C).....	30 (16.7)
Maximum Air Intake Restriction:	
Clean Air Cleaner – in. H ₂ O (kPa).....	12 (3.0)
Dirty Air Cleaner – in. H ₂ O (kPa).....	20 (5.0)
Engine Air Flow – ft ³ /min (m ³ /min).....	1700 (48.1)
Air Box Pressure – in. Hg (kPa).....	82.5 (278.6)
Recommended Intake Pipe Dia. – in. (mm).....	6.0 (152)
Minimum Net Engine Room Vent Area, – in. ² (cm ²).....	163 (1053)
Maximum Crankcase Pressure – in. H ₂ O (kPa).....	3.5 (0.87)

Exhaust System

Exhaust Flow – ft ³ /min (m ³ /min).....	3210 (90.9)	
Exhaust Temperature – °F (°C).....	530 (277)	
Maximum Back Pressure – in. Hg (kPa).....	2.2 (7.5)	
Recommended Exhaust Pipe Diameter:		
Single – in. (mm).....	5.0 (127)	6 (152)
Dual – in. (mm).....	Not Applicable	

Performance Data

BMEP – lb/in. ² (kPa).....	195.5 (1344)
Friction Power – fhp (kW).....	94 (70)

Engine Speed	Brake Power	Shaft Power	Rated Fuel Usage	Rated BSFC
r/min	bhp (kW)	shp (kW)	gal/hr (L/hr)	lb/bhp-hr (g/kW-hr)
2300	625 (466)	605 (451)	35.7 (135.1)	0.399 (243)
2100	625 (466)	603 (450)	35.1 (132.9)	0.393 (239)
1950	623 (465)	601 (448)	34.8 (131.7)	0.390 (237)
1800	568 (423)	546 (408)	31.1 (117.7)	0.383 (233)
1500	459 (342)	441 (329)	24.9 (94.3)	0.379 (231)
1200	350 (261)	335 (250)	19.9 (75.2)	0.397 (241)

Engine Speed	Prop Load	Prop Fuel Usage	Prop BSFC
r/min	shp (kW)	gal/hr (L/hr)	lb/bhp-hr (g/kW-hr)
2300	605 (451)	35.7 (135.1)	0.399 (243)
2100	461 (344)	26.3 (99.7)	0.386 (235)
1950	369 (275)	21.9 (82.9)	0.400 (243)
1800	290 (216)	17.4 (65.8)	0.402 (244)
1500	168 (125)	10.6 (40.3)	0.420 (255)
1200	86 (64)	6.3 (23.9)	0.473 (288)

Emissions Data

Smoke, Rated Speed – Bosch Number.....	1.4
Noise – dB(A) @ 1.....	103
Additional Noise Data.....	Not Available
NO _x – g/hr.....	4320
CO – g/hr.....	2540
HC – g/hr.....	7321
SO ₂ – g/hr.....	1131

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All values are at rated speed and power at SAE J1228 with standard engine hardware, unless otherwise noted.

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