

Boat Motor Parts Dept.
Dept. 3160
P.O. Box 7
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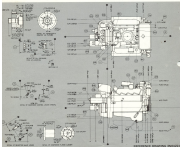
Shown with optional alternator

FOUR-STROKE CYCLE, SAFARIPLUS AIRMATES-DIESEL

NUMBER OF CYLINDERS	.....	4	4	4
BORE and STROKE	.....	4.0 in (102 mm)	4.0 in (102 mm)	4.0 in (102 mm)
NET DISPLACEMENT	.....	114 cu in (1.87 l)	114 cu in (1.87 l)	114 cu in (1.87 l)
	.....	1.87 l	1.87 l	1.87 l
NET HP @ 2000 RPM, Standard	.....	100	100	100
NET kW @ 2000	.....	73	73	73
WEIGHT (dry)	.....	1400	1400	1400
WEIGHT (with alternator)	.....	1500	1500	1500
Cooling System	.....	Raw Water	Raw Water	Raw Water
Idle RPM (with alternator)	.....	1500	1500	1500
APPROXIMATE FUEL CONSUMPTION	.....	1.5	1.5	1.5
.....	.....	1.5	1.5	1.5
.....	.....	1.5	1.5	1.5

3160

MARINE ENGINE



STANDARD EQUIPMENT

Fuel Gas (GSM) Marine Gas - Reverse
And Reverse - 1.00, 1.87, 2.50 or
2.80 (1 Meter)

Oil Tray for Oil Drain
12 Volt Charging Alternator (55 Amp)
12 Volt Starting Motor

Water Oil Filter And Pump
Lube Oil And Marine Gas Oil Cooler
Fuel Gas Oil Pan

Positive Charge Protection
Fuel Filter and Pump
Fuel Pre-Filter Pump

12 Volt Automatic Fuel Shutoff
S&S No. 2 Flywheel And Flywheel Housing
Muffler

Hydro-Mechanical Governor
Exhaust Tank
Engine Mounted Heat Exchanger With
Excess Water Tubes

Joint Watercooled Manifold
Joint And Sea Water Pump
Lifting Eye
Front Support

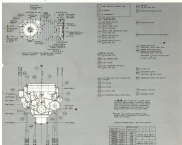
OPTIONAL EQUIPMENT

Heat Exchanger Assembly Tubes
Electric Oil Pressure Gauge
Electric Temperature Gauge
Electric Service Motor
Electric Water Temperature Gauge
Electronic Meter
Heavy Water "GSM Marine Gas"
1 1/2 or 2 1/2 Meter for Single Engine
Insulation/WRN Sea Permit
Continuous Fuel Power Reverse
Flashed Engine Mount
Water Temperature And Oil Pressure Controller
Primary Fuel Filter
Auxiliary Voltage From Crankshaft Mounted

Additional accessories and alternate designs
are available. Contact your Caterpillar representative
for full specific requirements.



Vertical Computer Page



ENGINE EXPLANATION:

Engine equipped with an exhaust fan filter, enclosed water pump.

CONTINUOUS is the horsepower and speed capability of the engine when run for periods without interruption or load limits.

Ratings are at ISO standard ambient conditions of 29.92 in. Hg (760 mm Hg) at 50°F (10°C). All engine ratings are subject to change at the discretion of Caterpillar.

CRUISE RATING—Caterpillar cruise rating gives us performance and economic means, are available to meet the specific needs of particular applications when detailed information is required.

Fuel consumption values are based on an engine in good trim order at 10,000 RPM (see chart) (10,000 RPM) and operating 1.70 seconds per 1.00 gallon (37.8549 liter).

RATING CURVES — SHIP HORSEPOWER



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CURVE EXPLANATIONS:

Curves represent tests at constant, full, half, and partial water pumps.

CONTINUOUS is the compressor's rated capacity of 2000 cfm (56.78 m³/min) for 100% without restriction or load for cooling. This can extend for months or years of operation if the system is equipped for hot gas take and line drains.

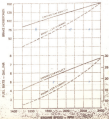
ratings are at 100% standard ambient conditions of 95°F in, 100% non-liquid 95°F (35°C). All other ratings are representative of 95°F ambient.

WATER RANGE—Indicates and continuous ratings are published are intended to be a general guide for condenser use in a broad range of applications. These ratings, including data on performance and economic return, are available to meet the requirements of particular applications when detailed information is submitted.

Full compressor plant is based on full load rating at gross heat rate of 10,000 Btu/h per pound (41,868 kJ/kg) and capacity 2.12 pounds per 100 cubic feet per hour.

REF. M. J. HANSEN
 2000 CAPACITY 95°F - 95°F

CONTINUOUS



CURVE DESCRIPTION

- A. Maximum output at the engine (vertical corrected to sea level conditions, 20.10 in. (760 mm) Hg and IOPF (15°C)).
- B. Shaft horsepower available at the output flange of the marine reduction gear at the SAE standard ambient conditions of 20.10 in. (760 mm) Hg and IOPF (15°C).
- C. Typical steady state propeller demand curve.
- D. Fuel rate for Curve B.
- E. Fuel rate for Curve C.

Material and specifications subject to change without notice.

