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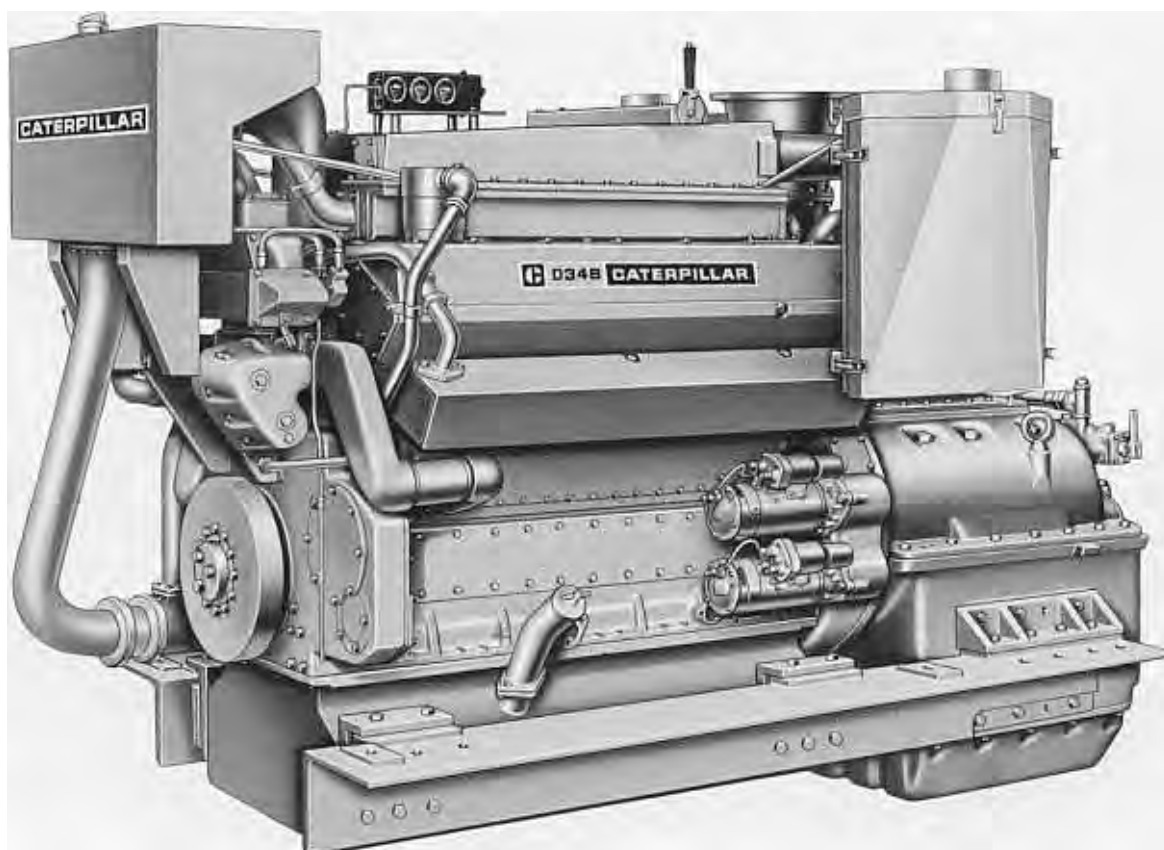
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CATERPILLAR

D348 MARINE ENGINE



MARINE ENGINE

		TA 85°F(30°C) Water to A/C
Maximum (Flywheel) @2000 RPM	BHP HP (metric)	1100 1115
Intermittent (Flywheel) @ 2000 RPM	BHP HP (metric)	920 933
Continuous (Flywheel) @ 1800 RPM	BHP HP (metric)	725 735
Continuous (Shaft) @ 1800 RPM	BHP HP (metric)	703 713
Approx. Fuel Consumption @ Full Cont. Shaft HP	Gal/Hr Lit/Hr	37.4 141

*For Maximum & Intermittent Applications, consult Factory.

DESCRIPTION

Four stroke cycle, Diesel

Number of cylinders V-12

Bore and stroke: inches 5.4 x 6.5
millimeters 137 x 165

Displacement: cu. in. 1786
liters 29,3

Low idle speed 650 RPM

Engine Rotation SAE Standard

Approximate dry weight	lb	kg	lb*	kg*
Engine	8500	3850	8500	3850

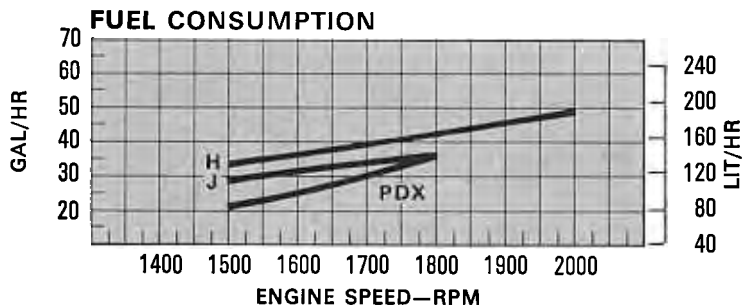
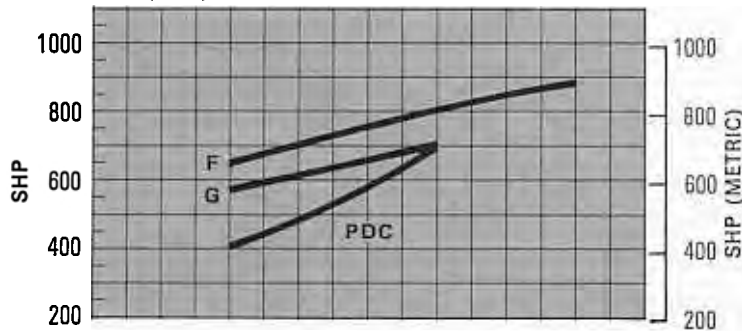
Marine gear (MG527) (7241*) . .	2785	1260	4000	1810
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Total	11285	5100	12500	5660
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D348

RATING CURVES—SHAFT HORSEPOWER

85°F (29°C) WATER TO AFTERCOOLER



PDC—TYPICAL PROP. DEMAND
CURVE FROM 703 SHP
AT 1800 RPM

PDC—TYPICAL PROP. DEMAND
FUEL CONSUMPTION CURVE
FROM 703 SHP AT 1800 RPM

F—INTERMITTENT (DIN 6270—No.)—SHAFT HORSEPOWER
G—CONTINUOUS (DIN 6270—No.)—SHAFT HORSEPOWER
H—FUEL CONSUMPTION BASED ON CURVE F
J—FUEL CONSUMPTION BASED ON CURVE G

MARINE GEAR	GEAR RATIOS
Twin-Disc MG 527	2.07:1 Forward and Reverse 2.92:1 Forward and Reverse 3.86:1 Forward and Reverse 5.17:1 Forward and Reverse
Caterpillar 7241	2.01:1 Forward and Reverse 2.94:1 Forward and Reverse 3.54:1 Forward and Reverse 4.00:1 Forward and Reverse 4.67:1 Forward and Reverse 5.88:1 Forward and Reverse

- ☐ Certification by major marine classification societies is available.
- ☐ Auxiliary-power engine configurations can be specified. Consult your application specialist.

STANDARDS:

GENERAL: All BHP ratings are at SAE J816 Standard conditions — 29.38 in Hg (746 mm) and 85°F (30°C). All HP (Metric) ratings are at DIN 6270 Standard conditions — 736 mm (28.97 in Hg) and 20°C (68°F).

Shaft ratings are net output ratings; i.e., the capabilities of the engine equipped with air cleaners, fuel, lube oil, jacket water pumps and marine gear.

INTERMITTENT is the horsepower and speed capability in applications having variable speed and/or load requirements.

CONTINUOUS is the horsepower and speed capability that can be utilized without interruption or load cycling.

OTHER RATINGS: Published intermittent and continuous ratings are a general guide for world-wide use over a broad application range. Other ratings, yielding higher performance and economic return, are available to meet the requirements of particular application.

FUEL FACTS: Fuel consumption applies to standard marine engine based on fuel oil having a gross heat value of 19,500 BTU per pound (10,830K-cal/Kg) and weighing 7.12 pounds per U.S. gallon (855 gm/ltr).

MARINE GEAR SPECIFICATIONS . . .**TWIN-DISC MG527**

- ☐ Adjustment-free oil-bathed multiple-disc clutches . . . hydraulically controlled.
- ☐ Gears in constant mesh, full power for both forward and reverse duty.
- ☐ Lubricant filtered twice and cooled before entering pressurized system.
- ☐ Hardened, ground and honed helical-tooth gears.
- ☐ Warranted by Caterpillar.

CATERPILLAR 7241

- ☐ Full power in forward or reverse.
- ☐ Planetary gear reduction . . . three planet gears share the torque.
- ☐ Sintered bronze clutch packs . . . bathed in cooled and filtered oil.
- ☐ Ground and honed gears . . . forged from nickel chrome alloyed steel.
- ☐ Pressure lubrication of bearings and gear meshes.

Materials and specifications subject to change without notice.

