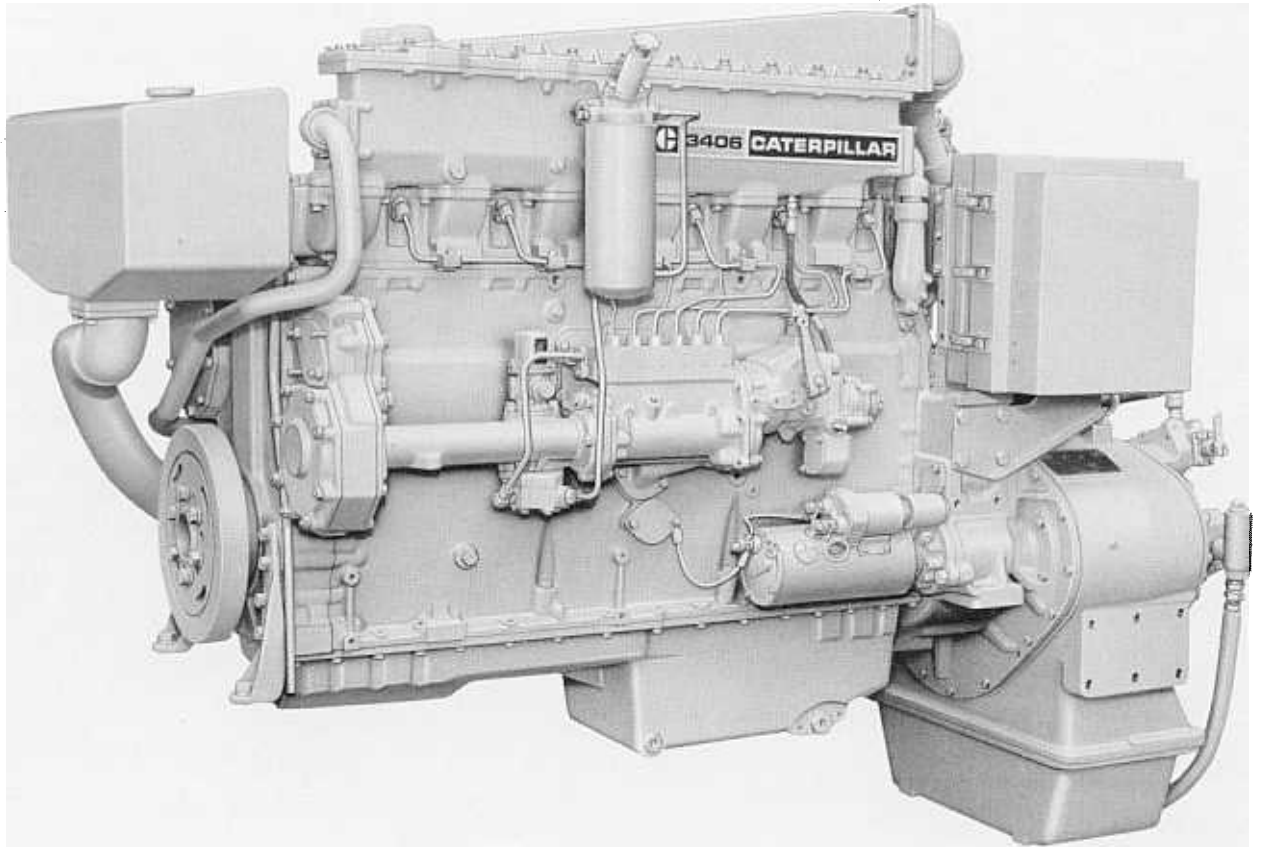




CATERPILLAR

3406 MARINE ENGINE

PRELIMINARY



MARINE ENGINE

| | | | | |
|--|-------------|------|------|------|
| Maximum (Flywheel)* @ 2100 RPM | BHP | 465 | 395 | 395 |
| | HP (metric) | 472 | 401 | 401 |
| Intermittent (Flywheel)* @ 2100 RPM | BHP | 375 | 325 | 325 |
| | HP (metric) | 380 | 330 | 330 |
| Continuous (Flywheel) @ 1800 RPM | BHP | 275 | 250 | 235 |
| | HP (metric) | 279 | 254 | 238 |
| Continuous (Shaft) @ 1800 RPM | BHP | 265 | 240 | 225 |
| | HP (metric) | 270 | 245 | 228 |
| Aspiration | | TA | T | T |
| Approximate Fuel Consumption @ Full Continuous Shaft HP | Gal/Hr | 15.4 | 13.1 | 12.0 |
| | Ltr/Hr | 58.3 | 49.6 | 46.0 |

DESCRIPTION

Four-stroke cycle Diesel engine

Number of cylinders..... In-line 6

Bore and stroke: inches..... 5.4 x 6.5
millimetres..... 137 x 165

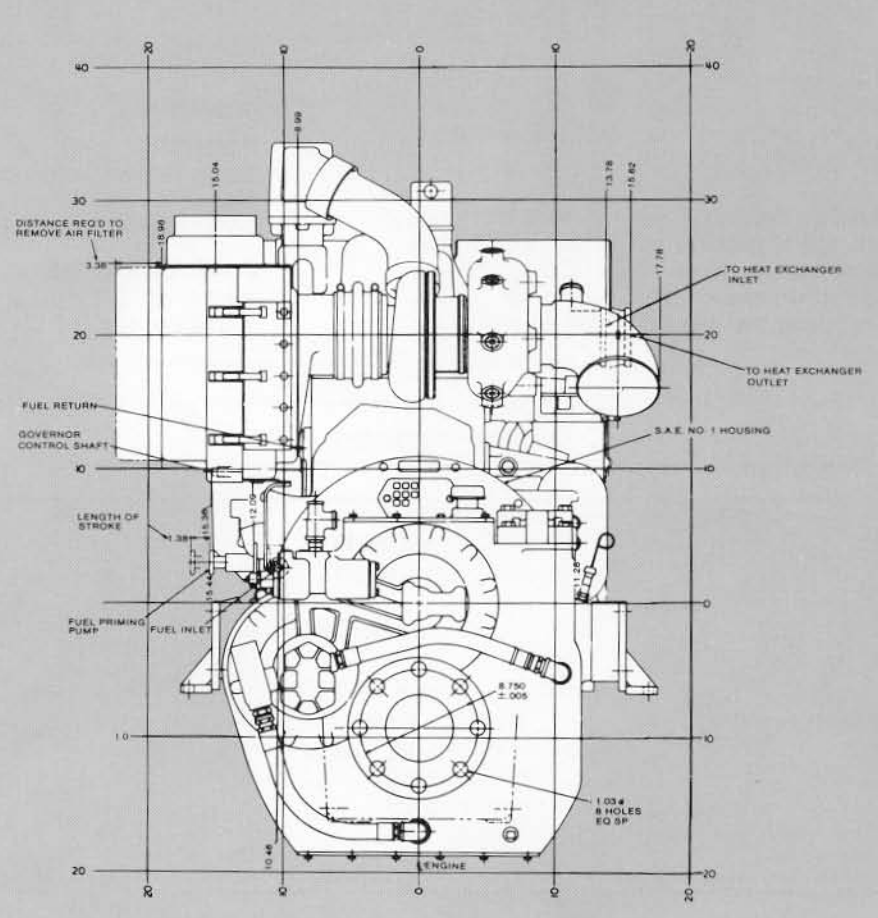
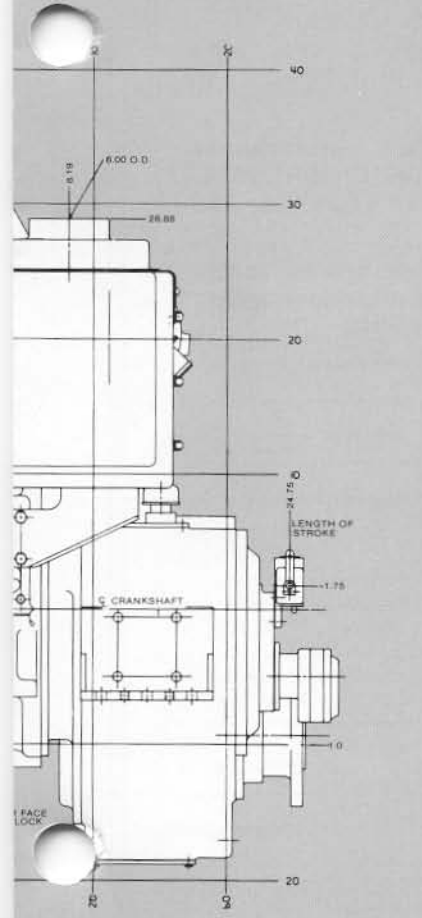
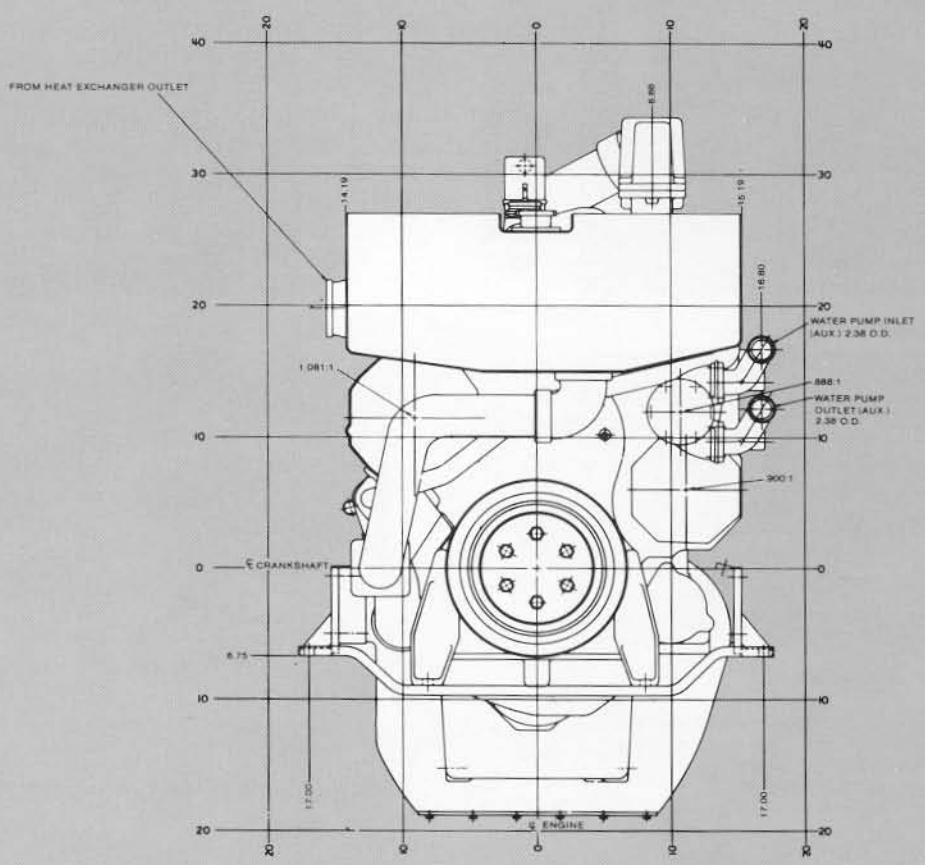
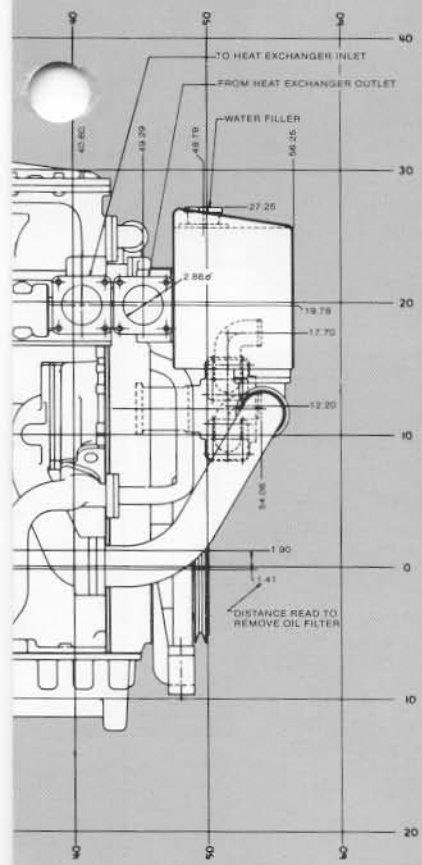
Displacement: cu. in..... 893
litre..... 14.6

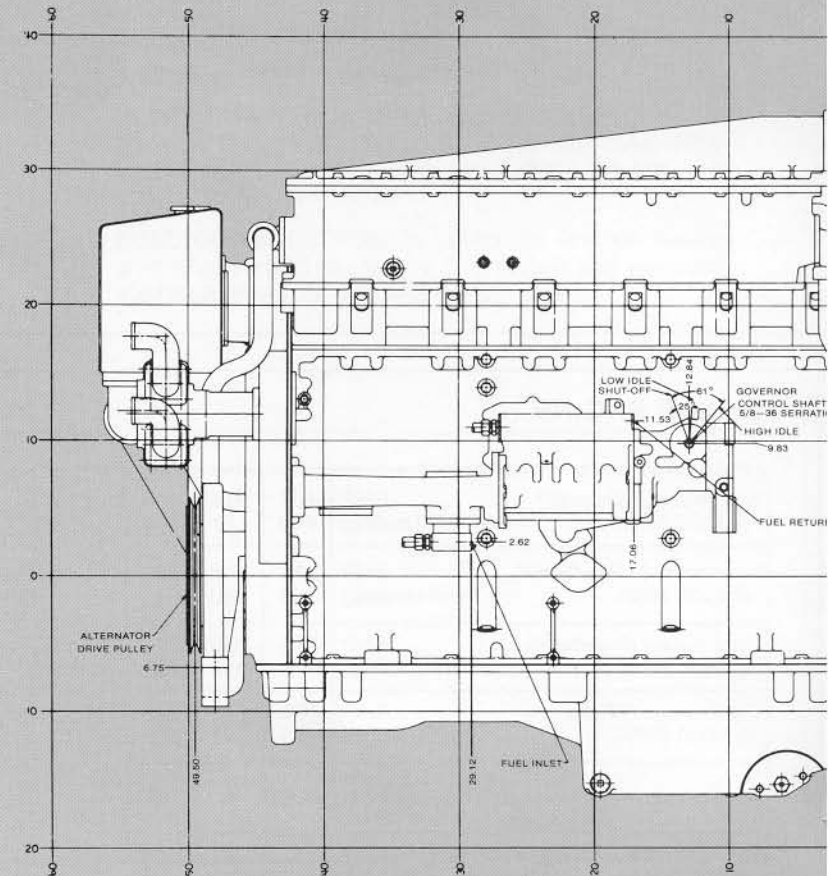
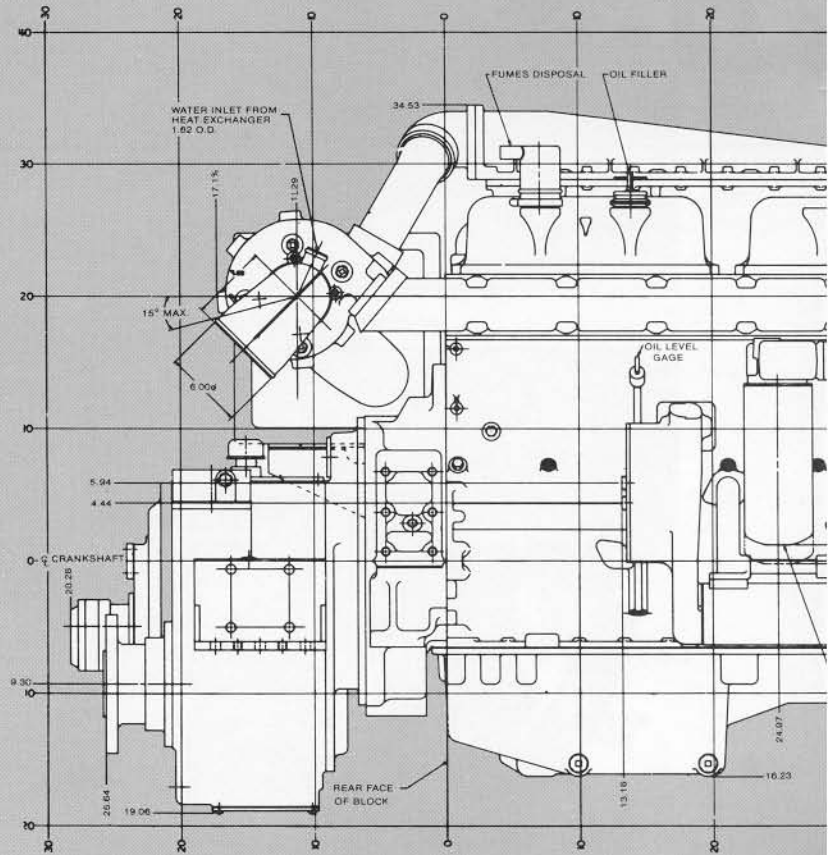
Low idle speed (RPM)..... 600

Engine rotation..... CCW (only)

Dry weight, approximate

| | Lb | Kg |
|------------------------------|------|------|
| Engine only..... | 3075 | 1400 |
| Engine with Twin Disc Gear | | |
| MG512, MG514 (3.5:1 only) .. | 4271 | 1937 |
| MG514..... | 4576 | 2076 |
| MG514M..... | 4786 | 2171 |
| MG509..... | 3735 | 1699 |





REFERENCE LAYOUT
 #40-82137 (Modified)
 MG 512/514 SHOWN

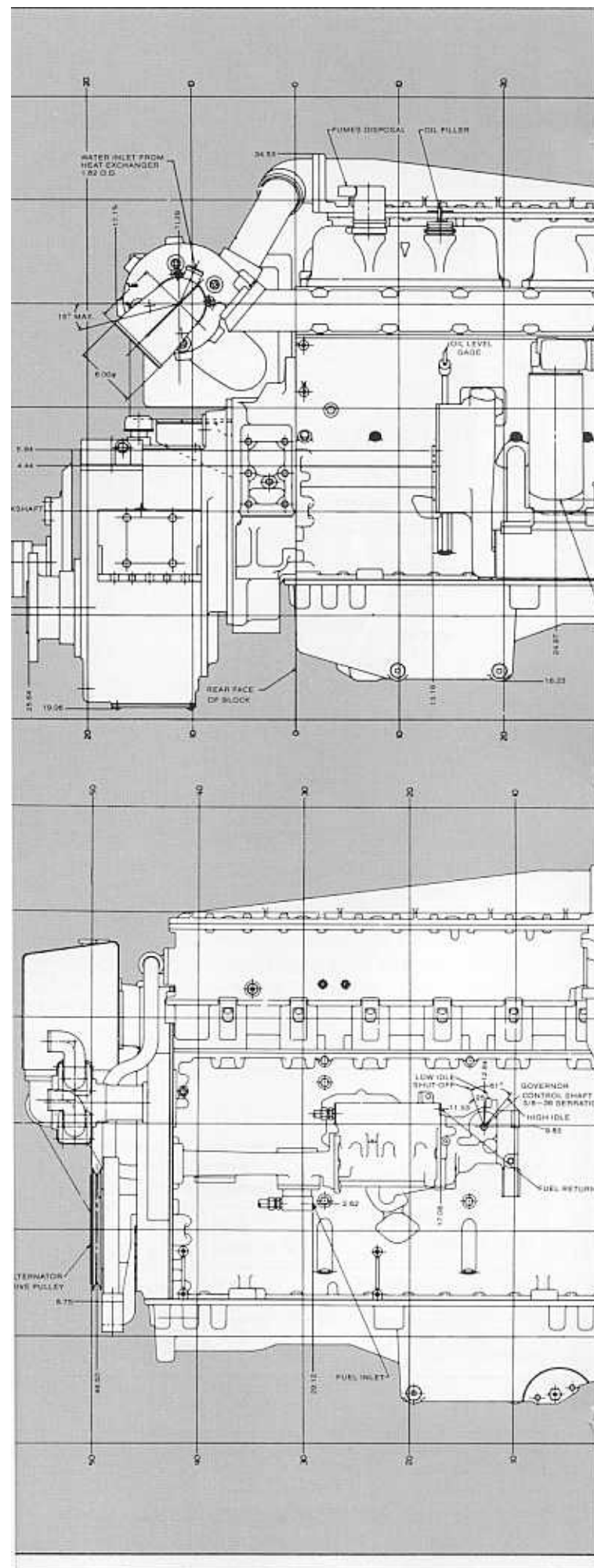
STANDARD EQUIPMENT

Lube Oil Cooler
 Tachometer Drive
 Fuel Filter (Spin-on) Type
 Lube Oil Filter (Spin-on) Type
 Flywheel
 Flywheel Housing, SAE #1
 Hydra-mechanical Governor
 Lifting Eyes
 Watercooled Exhaust Manifold
 Oil Filler and Dipstick
 Fuel Priming Pump
 Fuel Transfer Pump
 Jacket Water Pump, Gear Driven, Centrifugal
 SAE Standard Rotation
 Service Meter
 Watercooled Turbocharger
 Front Supports
 Expansion Tank
 Automatic Variable Timing
 Vibration Damper
 Marine Gear Oil Cooler
 Air Fuel Ratio Control

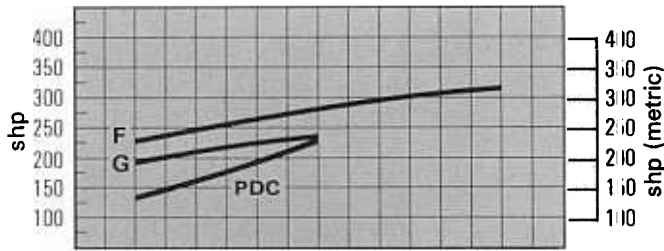
ATTACHMENTS

- Remote Actuated Controls
- Rack Solenoid Shutoff (24 or 32 volt)
- Pilot House Controls
- Heat Exchangers—Keel Cooling Arrangements
- Auxiliary Seawater Pump
- Flexible Exhaust Fittings, Elbows, and Flanges
- Flexible Fuel Lines
- Primary Fuel Filters
- Tachometers
- Engine-Mounted Instrument Panels
- Pilot House Instrument Panels
- Remote-Mounted Oil Filters
- Auxiliary Pulleys
- Oil Pressure, Water Temperature and Overspeed Contactors
- Mechanical Shutoffs
- Starting; Air, Electric and Hydraulic
- Alternators
- Glow Plugs
- Bilge Pumps and Drives
- Keel Cooling Connection Group
- Sump Pumps
- MG512 Marine Gear; 2:1, 3:1 F & R Gear Ratios
- MG514 Marine Gear: 3.5:1, 4.5:1, 6.0:1 F & R Gear Ratios
- MG514M Marine Gear with Omega Power Control: 4.5:1, 6.0:1
- MG509 Marine Gear; 1.45, 2.0, 2.95, 3.83, 4.5:1 (For 235 HP Version)

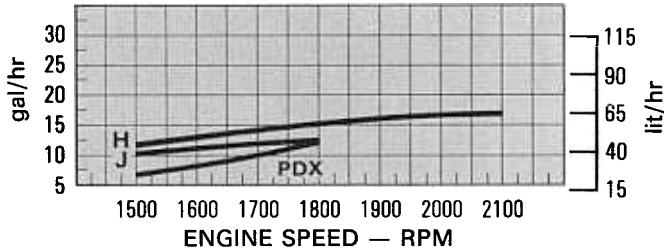
Additional attachments and alternate locations are available. Consult your Caterpillar Representative for specific requirements.



**3406 MARINE
RATING CURVES — DI-T**



FUEL CONSUMPTION

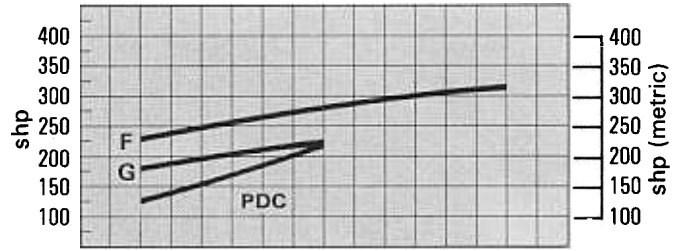


PDC— TYPICAL PROP. DEMAND
CURVE FROM 240 SHP
AT 1800 RPM.

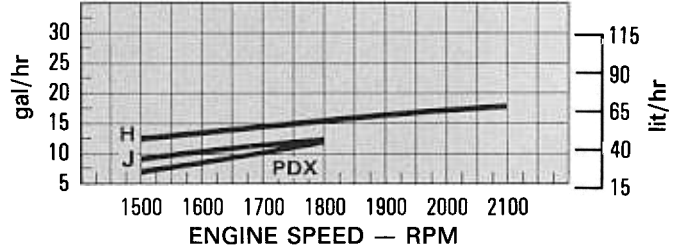
PDX— TYPICAL PROP. DEMAND
FUEL CONSUMPTION CURVE
FROM 240 SHP AT 1800 RPM.

F—INTERMITTENT (DIN 6270—Nb.)—SHAFT HORSEPOWER
G—CONTINUOUS (DIN 6270—Na.)—SHAFT HORSEPOWER
H—FUEL CONSUMPTION BASED ON CURVE F
J—FUEL CONSUMPTION BASED ON CURVE G

**3406 MARINE
RATING CURVES (For 235 HP Version)**



FUEL CONSUMPTION



PDC— TYPICAL PROP. DEMAND
CURVE FROM 225 SHP
AT 1800 RPM.

PDX— TYPICAL PROP. DEMAND
FUEL CONSUMPTION CURVE
FROM 225 SHP AT 1800 RPM.

F—INTERMITTENT (DIN 6270—Nb.)—SHAFT HORSEPOWER
G—CONTINUOUS (DIN 6270—Na.)—SHAFT HORSEPOWER
H—FUEL CONSUMPTION BASED ON CURVE F
J—FUEL CONSUMPTION BASED ON CURVE G


CONTINUOUS is the horsepower and speed capability of the engine which can be used 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

applications.

PERFORMANCE at SAE standard conditions of 29.38 in (746 mm) Hg. and 85°F (30°C)—SAE J816. Metric conditions are 736 mm (28.97 in) Hg. and 20°C (68°F)—DIN 6270.

FUEL CONSUMPTION is based on fuel oil having a HHV of 19,590 btu/lb. (45,570 kJ/kg) and weighing 7.076 Lb. per U.S. gal (848 gm per litre).

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PRINTED IN U.S.A.