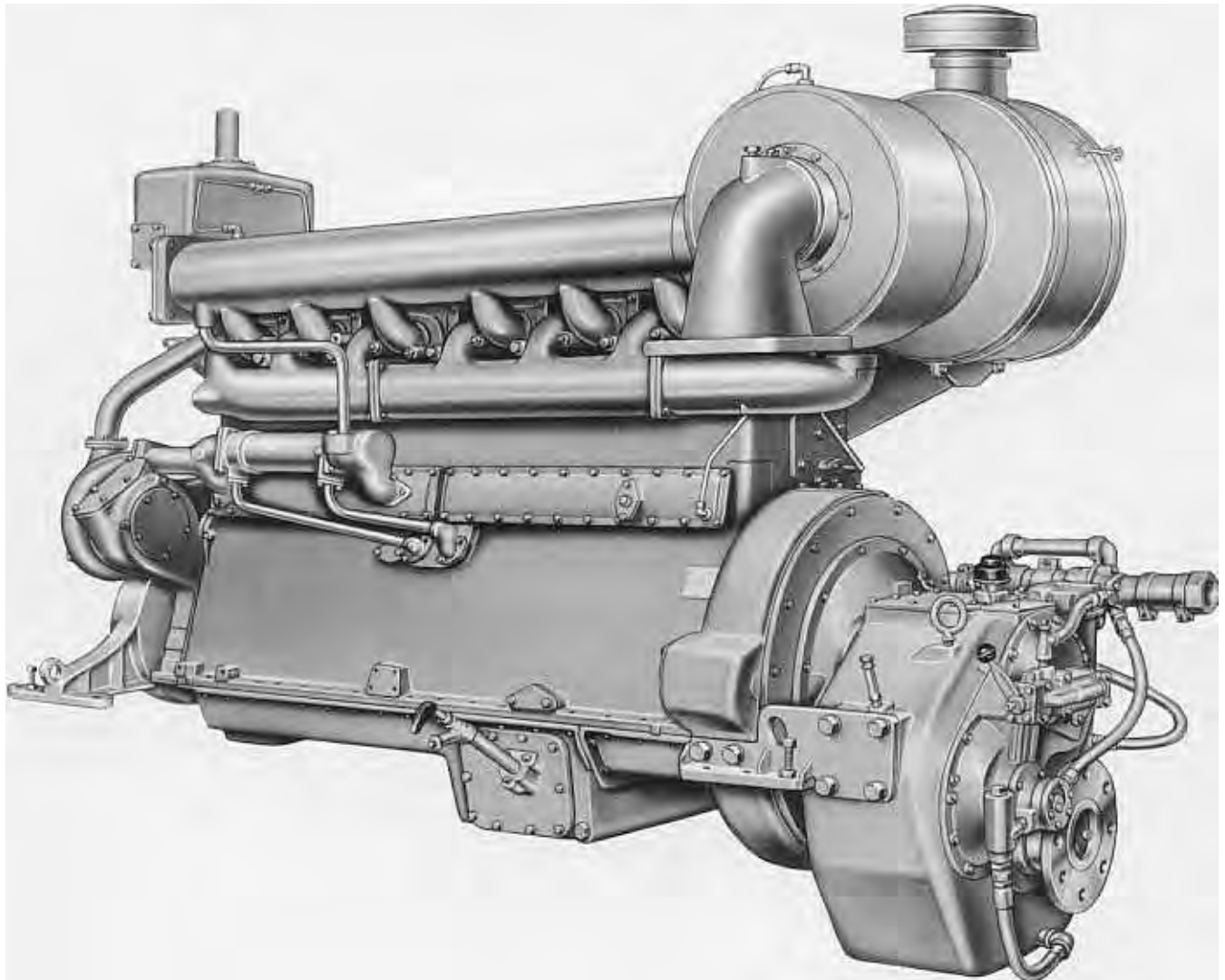




# CATERPILLAR

## D342 T NA MARINE ENGINE



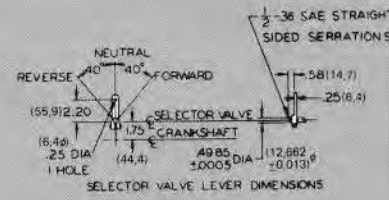
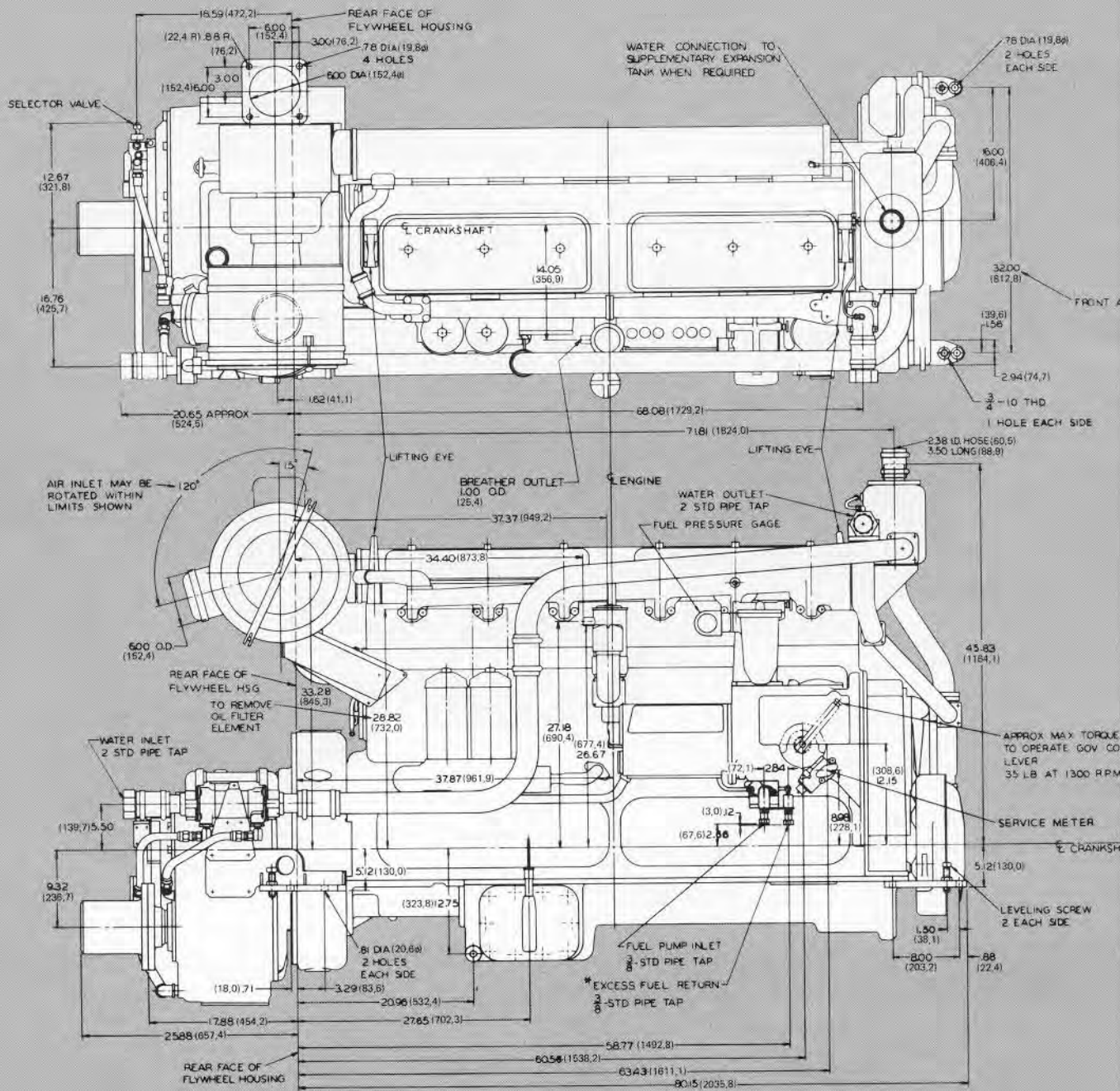
### MARINE ENGINE

		Turbocharged Model	Natural Aspiration
Maximum (Flywheel) @ 1300 RPM	BHP	360	220
	HP (metric)	365	223
Intermittent (Flywheel) @ 1300 RPM	BHP	300	200
	HP (metric)	304	203
Continuous (Flywheel) @ 1225 RPM	BHP	240	170
	HP (metric)	243	172
Continuous (Shaft) @ 1225 RPM	BHP	233	165
	HP (metric)	236	167
Approx. Fuel Consumption @ Full Cont. Shaft HP	Gal/Hr	12,9	9,4
	Lit/Hr	48,9	35,4

\*For Maximum & Intermittent Applications, consult Factory

### DESCRIPTION

Four stroke cycle, Diesel  
 Number of cylinders . . . . . In-Line 6  
 Bore and stroke: inches . . . . . 5.75 x 8.00  
                           millimeters . . . . . 146 x 203  
 Displacement: cu. in. . . . . 1246  
                           liters . . . . . 20,4  
 Low idle speed . . . . . 450 RPM  
 Engine Rotation . . . . . SAE Standard  
 Approximate dry weight           lb           kg           lb\*           kg\*  
 Engine (T) (NA\*) . . . . . 5790   2620   5600   2540  
 Marine gear (MG514). . . . . 1145   519   1145   519  
 Total . . . . . 6935   3139   6745   3059



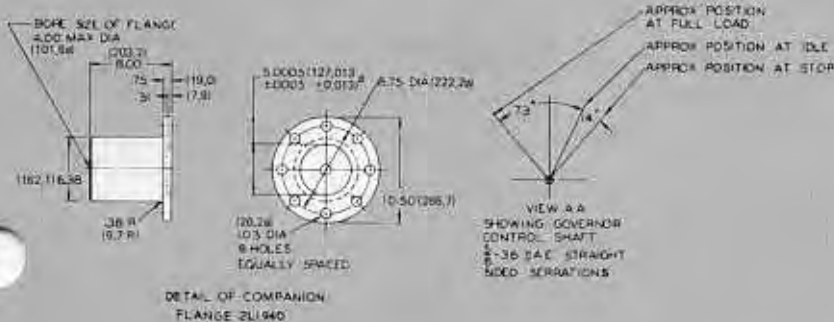
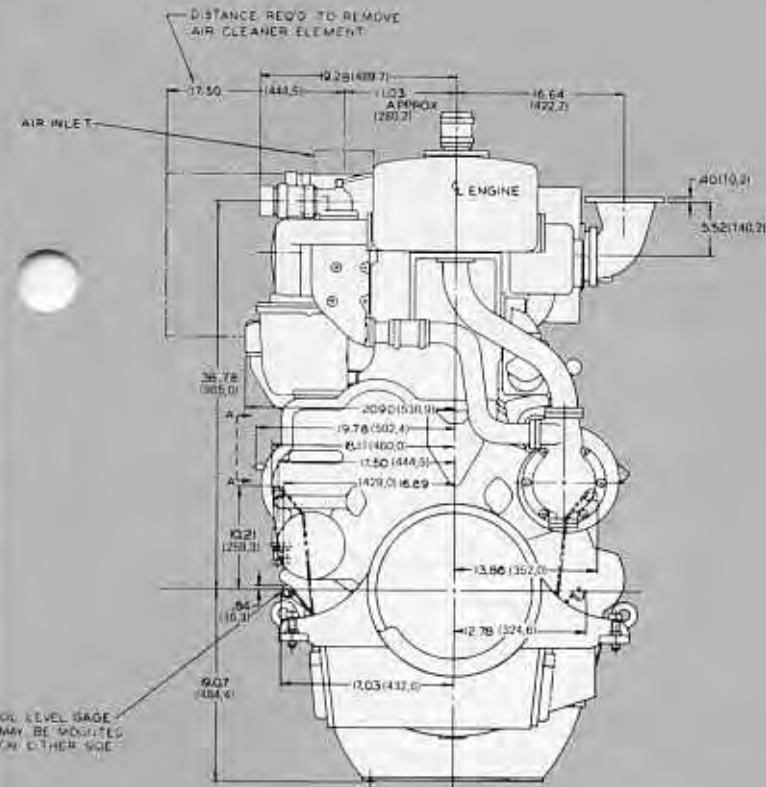
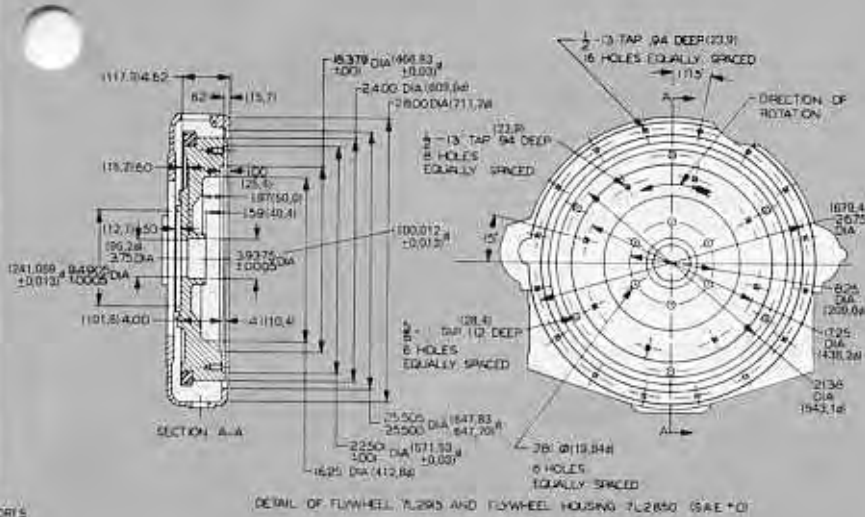
**STANDARD EQUIPMENT INCLUDES\*:**

- Air Cleaner, Single-Stage, dry
- Breather, Crankcase
- Cooler, Lubricating Oil
- Filters, Fuel, Lubricating Oil
- Flywheel and Flywheel Housing SAE No. 0
- Gauge, Fuel Pressure
- Governor, Mechanical
- Instrument Panel, right side or left side
- Lubricating Oil Pressure Gauge
- Water Temperature Gauge
- Lifting Eyes
- Oil Pan, Shallow
- Paint, Caterpillar yellow
- Pumps, Fuel Transfer
- Pumps, Water
- Auxiliary, Sea Water, Gear-driven, Rotary, Self-priming (not included with keel cooling arrangement)
- Jacket Water, Gear-driven, Centrifugal
- SAE Standard Rotation
- Service Meter
- Supports
- Thermostats and Housing
- Vibration Damper, Viscous, T engine, Rubber, NA engine
- Tachometer Drive
- Gear, Reverse and Reduction, Twin-Disc MG512 or MG514, includes propeller shaft flange and marine gear oil cooler,
- Manifold, Watercooled Exhaust
- Manual Pump, Lubricating Oil Sump.
- Tank, Expansion

\*Option of Engine only can be specified.

**ATTACHMENTS**

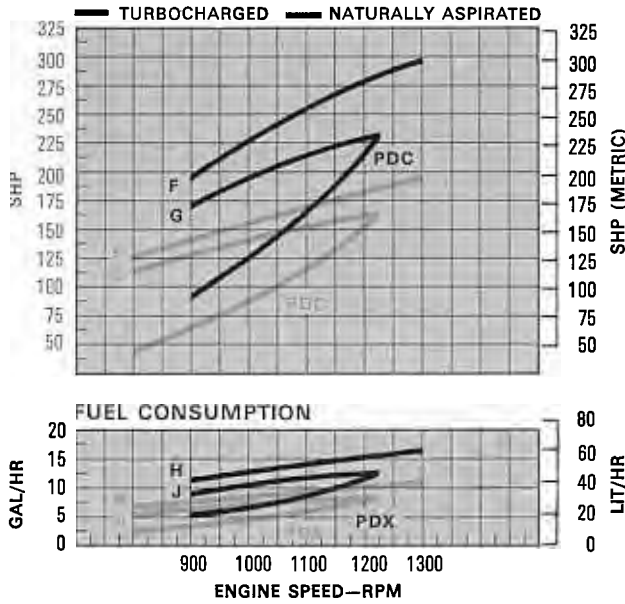
- Rain cap and service indicator.
- Engine mounted controls, right or left side, positive locking, remote single cable actuation.
- Remote positive locking mounted controls including elbows, cable, cable assembly, pilot house single lever option.
- Heat exchangers, admiralty metal or copper-nickel.
- Exhaust fittings including flexible connections and elbows.
- Mufflers for horizontal or vertical installation.
- Flexible fuel lines and primary fuel filter.
- Fuel priming pump.
- Tachometers, both electric and mechanical.
- Instrument panels for pilot house, electric or mechanical, for single and twin installations.
- Front enclosed Twin-Disc clutches.
- Crankshaft stub shaft.
- Safety devices and alarm switches.



Figures in parenthesis ( ) are metric.

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**RATING CURVES—SHAFT HORSEPOWER**



**PDC—T** TYPICAL PROP. DEMAND CURVE FROM 233 SHP AT 1225 RPM  
**PDX—T** TYPICAL PROP. DEMAND FUEL CONSUMPTION CURVE FROM 233 SHP AT 1225 RPM  
**PDC—NA** TYPICAL PROP. DEMAND CURVE FROM 165 SHP AT 1225 RPM  
**PDX—NA** TYPICAL PROP. DEMAND FUEL CONSUMPTION CURVE FROM 165 SHP AT 1225 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 MG512	2:1 Forward and Reverse 3:1 Forward and Reverse
Twin-Disc MG514	3.5:1 Forward 3.24:1 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 MG512 and MG514

- Adjustment-free oil-bathed multiple-disc sintered metal clutches . . . hydraulically controlled . . . separate clutch pack for forward and reverse
- Gears in constant mesh, full power for both forward and reverse duty . . . twinning flexibility
- Lubricant filtered twice and cooled before entering pressurized system.
- Hardened, ground and honed helical-tooth gears.
- Come-Home lock-up feature.
- Warranted by Caterpillar.

Materials and specifications are subject to change without notice.

