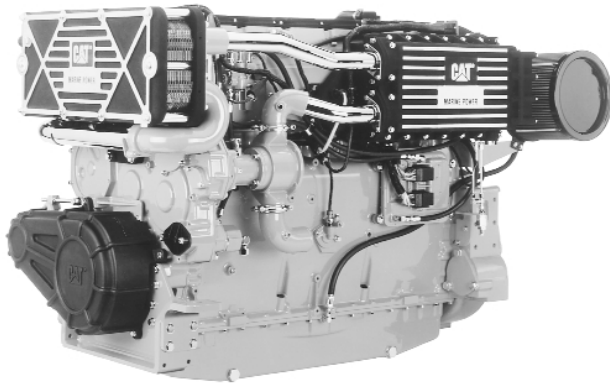




# Marine Propulsion 3406E Engine

410 kW (550 bhp) 558 mhp @ 2100 rpm



Shown with  
Accessory Equipment

## STANDARD EQUIPMENT

### Air Inlet System

Corrosion resistant sea water aftercooler, light-duty air cleaner, open system; jacket water cooled turbocharger

### Cooling System

Self-priming sea water pump with rubber impeller, gear driven jacket water pump, titanium plate heat exchanger with expansion tank and coolant recovery system (heat exchanger engines only), thermostat and housing

### Exhaust System

Watercooled manifold and turbocharger; round flanged outlet, 152 mm (6 in.)

### Flywheel and Flywheel Housing

SAE No. 1 (113 teeth)

### Fuel System

Fuel priming pump; fuel transfer pump; fuel filter — RH service on port, LH service on starboard; flexible fuel lines

### Instruments

24-volt instrument panel with start/stop switch, emergency stop button, maintenance light, diagnostic light, warning light, 15 amp and 3 amp breakers, starter motor magnetic switch; electric service meter

### Lube System

Crankcase breather; engine oil cooler; oil level gauge and oil filter — RH service on port, LH service on starboard; deep oil pan; gear driven oil pump

### Mounting System

Adjustable front support

### General

Vibration damper and guard, Caterpillar yellow paint, lifting eyes

## SPECIFICATIONS

### I-6, 4-Stroke-Cycle-Diesel

Emissions	IMO compliant
Displacement	14.6 L (893 cu. in.)
Bore	137.2 mm (5.4 in.)
Stroke	165.1 mm (6.5 in.)
Aspiration	Turbocharged-Aftercooled
Governor	Electronic
Engine Weight, Net Dry (approx)	
Heat Exchanger Cooled	1586 kg (3497 lb)
Keel Cooled	1509 kg (3326 lb)
Capacity for Liquids	
Cooling System	43.7 L (11.4 U.S. gal)
Lube Oil System (refill)	68.1 L (17.7 U.S. gal)
Oil Change Interval	500 hr
Caterpillar DEO 10W30 or 15W40	
Rotation (from flywheel end)	Counterclockwise

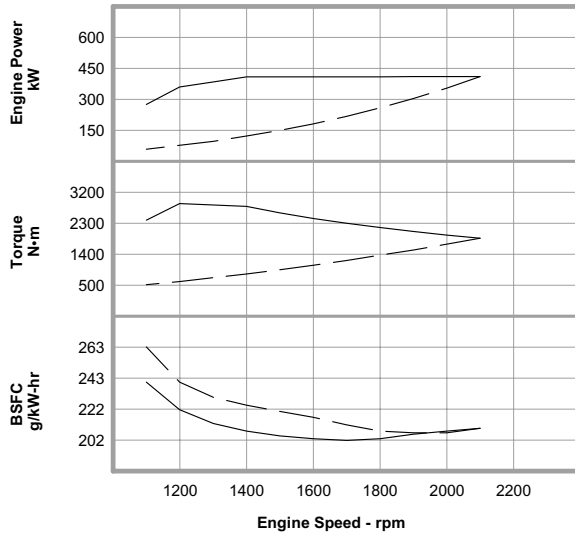
## ACCESSORY EQUIPMENT

Aftercooler Condensate Drain  
Air Starting Motor  
12V 51 Amp, 12V 105 Amp Alternator  
Cruise Kits  
12V/24V DC Converter  
Digital Tachometer  
Double Wall Fuel Lines and Drain  
Dress-Up Kit  
Duplex Fuel Filters  
Electric Starting Motor  
Engine Monitoring System  
Engine-to-Engine Wiring Harness  
Engine Vision Display System  
Exhaust Elbow, Dry or Watercooled  
Exhaust Pipe, Flange, Flexible Fittings  
Front Enclosed Clutch  
Front Stub Shaft  
Fuel Cooler  
GPS Interface Module  
Heavy-Duty Front Support  
Hydraulic Pump Drive  
12V Instrument Panel  
Jacket Water Heater  
Marine Power Display  
OEM Wiring Harness  
Primary Fuel Filter/Water Separator  
Pulley and Damper  
Regular-Duty Panel Air Cleaner  
Spare Parts Kit  
Throttle Position Sensor  
Transmission Oil Cooler  
Vibration Isolation Mounting

**PERFORMANCE CURVES**

**B Rating — DM6119-00**

**IMO Compliant**

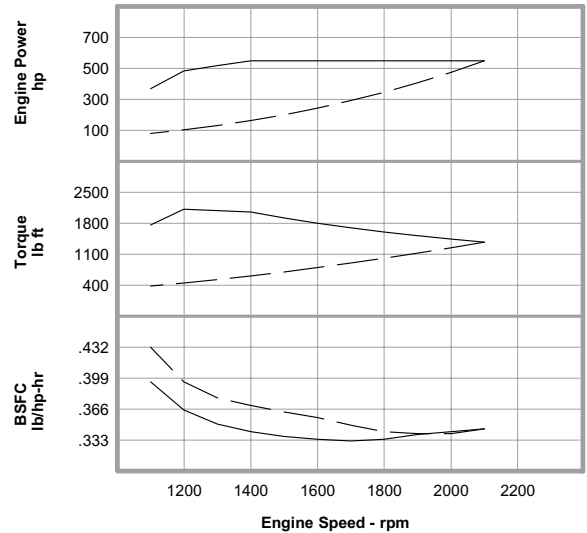


**Metric**      **Maximum Power**       **410 kW**  
**Prop Demand**

**Performance Data**

	Engine Speed rpm	Engine Power kW	Engine Torque N·m	BSFC g/kW-hr	Fuel Rate L/hr
<b>Maximum Power Data</b>	2100	410	1864	210.0	102.7
	2000	410	1956	208.0	101.5
	1900	410	2058	206.0	100.3
	1800	409	2171	203.0	99.2
	1700	409	2298	202.0	98.6
	1600	409	2440	203.0	98.7
	1500	409	2602	205.0	99.7
	1400	409	2787	208.0	101.3
	1300	385	2830	213.0	97.8
	1200	360	2867	222.0	95.4
1100	275	2388	240.0	78.7	
<b>Prop Demand Data</b>	2100	410	1865	210.0	102.7
	2000	354	1691	207.0	87.5
	1900	304	1526	207.0	74.8
	1800	258	1370	208.0	64.1
	1700	218	1222	212.0	55.0
	1600	181	1082	217.0	46.8
	1500	149	951	221.0	39.4
	1400	122	829	225.0	32.7
	1300	97	715	230.0	26.7
	1200	77	609	240.0	21.9
1100	59	512	263.0	18.5	

Cubic prop demand curve with 3.0 exponent for displacement hulls only.



**English**      **Maximum Power**       **550 hp**  
**Prop Demand**

**Performance Data**

	Engine Speed rpm	Engine Power hp	Engine Torque lb ft	BSFC lb/hp-hr	Fuel Rate gph
<b>Maximum Power Data</b>	2100	550	1375	.345	27.1
	2000	549	1443	.342	26.8
	1900	549	1518	.339	26.5
	1800	549	1601	.334	26.2
	1700	549	1695	.332	26.0
	1600	548	1800	.334	26.1
	1500	548	1919	.337	26.3
	1400	548	2055	.342	26.8
	1300	517	2087	.350	25.8
	1200	483	2114	.365	25.2
1100	369	1761	.395	20.8	
<b>Prop Demand Data</b>	2100	550	1375	.345	27.1
	2000	475	1247	.340	23.1
	1900	407	1125	.340	19.8
	1800	346	1010	.342	16.9
	1700	292	901	.349	14.5
	1600	243	798	.357	12.4
	1500	200	701	.363	10.4
	1400	163	611	.370	8.6
	1300	130	527	.378	7.1
	1200	103	449	.395	5.8
1100	79	378	.432	4.9	

Power produced at the flywheel will be within standard tolerances up to 50°C (122°F) combustion air temperature measured at the air cleaner inlet, and fuel temperature up to 52°C (125°F) measured at the fuel filter base. Power rated in accordance with NMMA procedure as crankshaft power. Reduce crankshaft power by 3% for propeller shaft power.





# 3406E MARINE PROPULSION — 410 bkW (550 bhp)

Performance data is calculated in accordance with tolerances and conditions stated in this specification sheet and is only intended for purposes of comparison with other manufacturers' engines. Actual engine performance may vary according to the particular application of the engine and operating conditions beyond Caterpillar's control.

TMI Reference No.: DM6119-00 (6-19-01)

Materials and specifications are subject to change without notice.

The International System of Units (SI) is used in this publication.

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