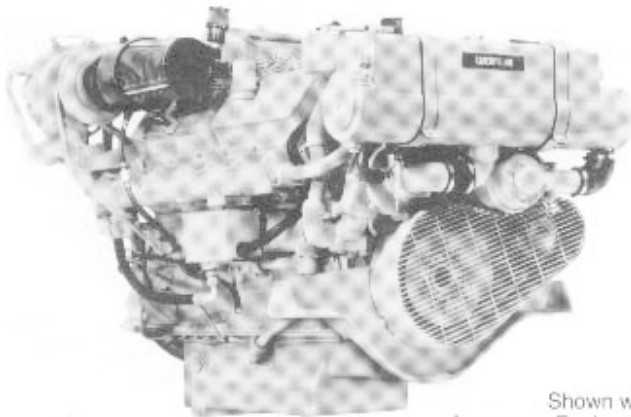


CATERPILLAR®

Marine Engine

3412

850 hp, 1050 hp, 1200 hp
2300 rpm



Shown with
Accessory Equipment

SPECIFICATIONS

V-12, 4-Stroke-Cycle-Diesel

Bore—mm (in).....	137	(5.4)
Stroke—mm (in).....	152	(6.0)
Displacement—L (cu in).....	27	(1,649)
Rotation (from flywheel end).....	Counterclockwise	
Compression Ratio.....	14.1:1	
Capacity for Liquids — L (U.S. gal)		
Cooling System (engine only).....	83	(22)
Lube Oil System (refill).....	72	(19.0)
Oil Change Interval—L (gal).....	19,000	(5,000)/fuel
Engine Weight, Net Dry (approx)—kg (lb)	2,313	(5,100)
Governor.....	Electronic	

PERFORMANCE DATA*

Turbocharged-Aftercooled

Rating Level	E	D	C
Rated rpm	2300	2300	2300
Engine Power @ rpm	895 kW (1200 bhp) 1217 mhp	782 kW (1050 bhp) 1065 mhp	634 kW (850 bhp) 862 mhp

rpm	2300	1900	1400	2300	1900	1400	2300	1900	1400
kW	895	505	202	782	441	177	634	357	143
g/kW-hr	216	211	231	217	213	235	216	218	244
L/hr	230	127	56	203	112	50	163	93	42

bhp	1200	677	271	1050	592	237	850	479	192
lb/hp-hr	.354	.346	.379	.357	.350	.386	.355	.358	.401
gal/hr	61.0	33.5	14.7	54.0	30.0	13.0	43.0	25.0	11.0

RATING CONDITIONS

Ratings are based on SAE J1349 standard conditions of 100 kPa (29.61 in. Hg) and 25° C (77° F). These ratings also apply at ISO 3046/1, DIN 6271, and BS 5514 standard conditions of 100 kPa (29.61 in Hg), 27° C (81° F) and 60% relative humidity

Fuel rates are based on fuel oil of 35° API [16° C (60° F)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29° C (85° F) and weighing 838.9 g/liter (7.001 lb/U.S. gal).

RATING LEVEL DEFINITIONS

E – For use in pleasure craft with planing hulls, as well as for patrol, pilot and harbor master boats.

C – For use in yachts with displacement hulls, as well as ferries with trips less than one hour, fish boats with higher speed journey

D – For use in patrol, customs, police, and some fire boats.

out and back (e.g., some lobster, crayfish, and tuna), and short trip coastal freighters.