

## 3208 Marine Propulsion 210 – 435 hp



Turbocharged-Aftercooled — Separate Circuit Aftercooling 30°C (86°F) Sea Water

Rating Level	E	E	D
Rated rpm	2800	2800	2800
Engine Power** @ rpm	324 kW (435 hp) 441 mhp	280 kW (375 hp) 380 mhp	254 kW (340 hp) 345 mhp

rpm	2800	2400	2000	2800	2400	2000	2800	2400	2000
kW	324	221	140	280	176	102	254	160	93
g/kW-hr	229	209	213	238	217	202	231	213	202
L/hr	88.5	55.1	35.5	79.5	45.5	24.5	69.7	40.5	22.3

bhp	435	296	188	375	236	137	340	214	124
lb/hp-hr	.377	.344	.350	.390	.356	.331	.379	.350	.332
gal/hr	23.4	14.5	9.4	21.0	12.0	6.5	18.4	10.7	5.9

\* Represents performance along a typical fixed pitch propeller curve.

\*\* Power rated in accordance with NMMA procedures as crankshaft power.

For units equipped with Caterpillar-supplied marine gears, reduce crankshaft power by 3% for propeller shaft power.

Fuel use reflects SAE standards. Fuel use reflecting ISO standards is typically 2-3% less. Consult your Cat representative for details.

### MARINE TRANSMISSION

MARINE TRANSMISSIONS	RATIOS	DRY WEIGHT kg (lb)
MG502-1	1.54:1, 2:1	73 (160)
MG502	2.47:1	68 (150)
MG506-1	1.5:1, 1.97:1, 2.5:1, 2.96:1	109 (240)
MG507	1.51:1, 1.98:1, 2.54:1, 1.77:1	159 (350)
MG507A	1.51:1, 1.98:1, 2.54:1	159 (350)



TA Shown with MG507

### DIMENSIONS

	L		H		W	
	mm	in	mm	in	mm	in
MG502-1, MG502 (NA)	1499	59.0	922	36.3	963	37.9
MG502-1, MG506-1 (T)	1499	59.0	1011	39.8	963	37.9
MG507, MG507A (T)	1524	60.0	1011	39.8	963	37.9
MG507, MG507A (TA)	1534	60.4	1019	40.1	965	38.0

### STANDARD ENGINE EQUIPMENT

Air Intake — dry-type, single stage air cleaner with service indicator, air fuel ratio control — 435 hp  
 Cooling — transmission oil cooler, heat exchanger, engine oil cooler, watercooled exhaust manifolds, auxiliary sea water pump, expansion tank, thermostats  
 Flywheel and Flywheel Housing (SAE No. 3)  
 Fuel — filter, priming pump, shutoff solenoid (ETR)  
 Governor — mechanical  
 Lubricating — oil filter, dipstick  
 Starting — 12 volt electric, tachometer drive, 12 volt 51 ampere alternator  
 Torsional Vibration Damper

### ACCESSORY EQUIPMENT

Air/Fuel Ratio Control — excluding 435 hp  
 Alternator — belt driven, 24 volt 35 ampere, 12 volt 35 ampere  
 Exhaust — 6" watercooled elbow  
 Flexible Engine Mounts  
 Front crankshaft mounted pulley (single or three groove)  
 Protection Devices — oil pressure and water temperature contactors  
 Starting — 24 volt and 12 volt

### 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).

