

MARINE ENGINE

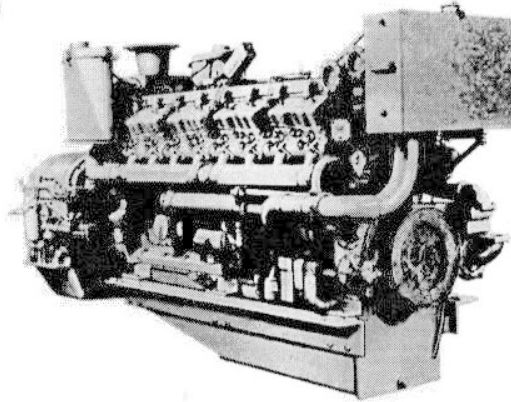
CATERPILLAR

D399

1000 hp @ 1225 rpm, 1380 hp @ 1300 rpm

MARINE PROPULSION

Turbocharged-Aftercooled



V16, 4-STROKE-CYCLE DIESEL

MARINE TRANSMISSION	CAT 7251	CAT 7261	CAT 7271
REDUCTION RATIOS	1.00:1	2.89:1	4.50:1
		3.18:1	5.09:1
		3.49:1	5.55:1
		3.84:1	7.00:1
		4.22:1	

BORE—in (mm)	6.25 (159)
STROKE—in (mm)	8.00 (203)
DISPLACEMENT—cu in (liter)	3,927 (64.4)
ROTATION (from flywheel end)	Clockwise or Counterclockwise
ENGINE WEIGHT, Net Dry (approximate)—lb (kg)	
Separate Circuit Aftercooled (SCAC) (for keel cooling)	17,240 (7818)
Separate Circuit Aftercooled (SCAC) (for heat exchanger cooling)	17,250 (7823)
Jacket Water Aftercooled (JWAC)	17,150 (7778)
TRANSMISSION WEIGHT, Net Dry (approximate)—lb (kg)	
7251	5,290 (2399)
7261 (weight varies with gear ratio)	6,340-6,635 (2875-3009)
7271	8,000 (3628)

Note: Caterpillar Marine Engine and Transmissions are approved for certification by the following marine classification societies: ABS, BV, CBSI, DnV, GL, LR, NK, R.I.Na.

STANDARD EQUIPMENT

Air Intake System:
 Air Cleaner Adapters
 Air Cleaner Service Indicators
 Single-Stage Dry Air Cleaners
Control Systems:
 Hydra-Mechanical Governor
Cooling System:
 Coolant Expansion Tank
 Coolant Pump
 Coolant Thermostats
 Lube Oil Cooler
 Non-Self-Priming Fresh Water Pump (SCAC—KC)
 Self-Priming Sea Water Pump (SCAC—H/E)
Exhaust System:
 Watercooled Exhaust Manifolds (continuous rating only)
 Watercooled Turbocharger Shield
Fuel System:
 Fuel Filter
 Fuel Priming Pump
 Fuel Transfer Pump
Instruments and Gauges:
 Instrument Panel with Ten Gauges
 SAE Standard Dual Tachometer Drive Service Meter
Lubricating System:
 Emergency Connections
 Lube Oil Filter
 Lube Oil Pump

Manual Sump Pump
 Prelube Pump
Mounting System:
 Lifting Eyes
 Mounting Rails
Power Takeoffs:
 Flywheel Housing, SAE No. 00
 Front Accessory Drive
Protection Devices:
 Manual Shutoff Control
 Shutoffs—Oil Pressure and Coolant
 Temperature Contactors, Intake
 Manifold Temperature Contactor (SCAC), Overspeed and Engine
 Reversal Protection (1200-1300 rpm)

ACCESSORY EQUIPMENT*

Control Systems:
 Engine Mounted
 Pilot House
 Woodward UG8 Governor
Cooling System:
 Emergency Coolant Connections
 Heat Exchangers
Exhaust System:
 Muffler
Fuel System:
 Double Wall Fuel Lines
 Duplex Fuel Filter
 Flexible Fuel Lines

Instruments and Gauges:

Exhaust Pyrometer and Thermocouples
 Pilot House Panels
 Tachometer

Lubricating System:

Duplex Lube Oil Filters
Marine Transmissions:
 Cat 7271, 7261, 7251
 Emergency Lube Oil Connections (7261)

Trolling Valve (7271, 7261)

Mounting System:

Sound Isolation Mounting (engine and 7261)

Power Takeoffs:

Auxiliary Drive Pulleys
 Front Enclosed Clutch

Protection Devices:

Overspeed Shutoff
 Rack Solenoid Shutoffs (24, 30-32V)

Spare Parts:

ABS, BV, DnV, GL, LR, NK, R.I.Na
 Approved Parts Kits (engine and 7271, 7261)

Starting Systems:

Air Starting
 Battery Chargers
 Battery Sets
 Charging Alternators (24, 30-32V)
 Electric Starting (24, 30-32V)
 Glow Plugs

* Consult your Caterpillar Dealer for additional accessory equipment.