

MARINE ENGINE

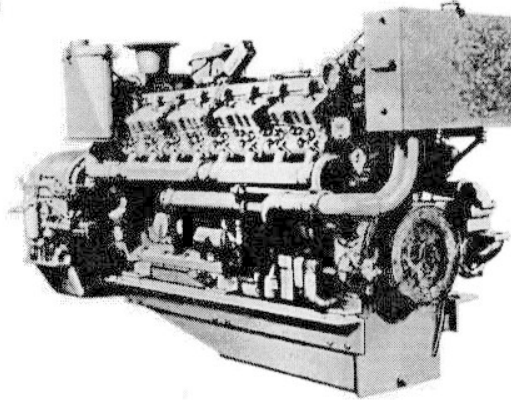
CATERPILLAR

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.