

Cummins Engine Company, Inc.

Marine Engine General Data Sheet

Marine
Pg. No.
N855
77

Engine Model: N/NT/NTA 855-M

Data Sheet: DS-4962
Date: 18Feb02

General Engine Data

Metric [U.S. Customary]

Type		4 cycle, Inline, 6 cylinder
Bore & Stroke	mm [in.]	139 [5.5] x 152 [6.0]
Displacement	litre [in. ³]	14 [855]
C.G. Distance from Front Face of Block (Engine Only)	mm [in.]	559 [22]
C.G. Distance above Crankshaft Centerline (Engine Only)	mm [in.]	127 [5]

Engine Mounting

Maximum Allowable Bending Moment at Rear Face of Block	N•m [lb-ft]	1356 [1000]
Minimum/Maximum Static Installation Angle for In-line Drives (Front Up)	Degrees	0 / 12
Minimum/Maximum Static Installation Angle for V drives (Front Up)	Degrees	3 / 12

Note: Front up refers to front of engines. In V-Drives it faces the back of the boat.

Fuel System

Maximum Allowable Restriction to Fuel Pump - With Clean Filter	mm Hg [in. Hg]	100 [4]
Maximum Allowable Restriction to Fuel Pump - With Dirty Filter	mm Hg [in. Hg]	200 [8]
Maximum Allowable Return Line Pressure	mm Hg [in. Hg]	102 [4]

Exhaust System

Maximum Allowable Back Pressure	mm Hg [in. Hg]	75 [3]
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Air Induction System

Maximum Allowable Intake Restriction		
Clean/Dirty Element	mm H ₂ O [in. H ₂ O]	254 / 508 [10 / 20]
Maximum Allowable Intake Air Temperature ΔT	°C [°F]	17 [30]

Lubrication System

Oil Pressure		
At Idle Speed-Minimum	kPa [PSI]	103 [15]
Normal Operating Range	kPa [PSI]	276 - 414 [40 - 60]
Maximum Allowable Oil Temperature (Sump)	°C [°F]	121 [250]
Oil Pan Capacity High/Low	litre [U.S. gallons]	26.5 / 22.7 [7 / 6]
Total System Capacity (Excluding By-pass Filter)	litre [U.S. gallons]	37 [9.8]
By-Pass Oil Filter Capacity (1-LF777)	litre [U.S. gallons]	2.6 [0.7]
Maximum Operational Angularity of Oil Pan (See Engine Mounting)		
Front Down	Degrees	45
Front Up	Degrees	45
Side-to-Side	Degrees	45

Cooling System

Coolant Capacity - Engine Only	litre [U.S. gallons]	21 [5.5]
Coolant Capacity - Engine with Heat Exchanger	litre [U.S. gallons]	49 [13]
Maximum External Pressure Loss in Cooling System	kPa [PSI]	35 [5]
Maximum Static Pressure of Coolant (exclusive of Pressure Cap)	kPa [PSI]	103 [15]
Standard Thermostat (modulating) Range	°C [°F]	80 - 90 [175 - 195]
Maximum Coolant Temperature	°C [°F]	96 [205]
Minimum Allowable Coolant Expansion Space	% of System Capacity	5
Minimum Coolant Makeup Capacity	litre [U.S. gallons]	4.2 [1.1]
Maximum Sea Water Pressure	kPa [PSI]	103 [15]

Sea Water Pump Specifications..... Refer to MAB 0.08.17-07/16/2001

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COLUMBUS, INDIANA

All Data is Subject to Change Without Notice - consult the following Cummins intranet site for most recent data:
<http://marketingtechdata.cummins.com/curves/database/htmlfiles/curvemainpage.htm>

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Electrical System

	<u>24V</u>	<u>32V</u>
Minimum Recommended Battery Capacity		
Cold Soak at -18°C (0°F)..... Cold Cranking Amperes (CCA)	900	780
Reserve Capacityminutes	320	240
Cold Soak at 0°C (32°F)..... Marine Cranking Amperes (MCA)	1125	975
Reserve Capacityminutes	240	180
Maximum Allowable Resistance of Starting Circuit.....Ohms	0.0020	0.0020
Wiring Diagram Number	3074324	

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