

## FEATURES AND BENEFITS

**ENGINE BLOCK** - Four cycle, 4 cylinder, liquid cooled, dry turbocharged, overhead valve diesel. The induction hardened, forged carbon steel crankshaft is stronger than cast iron while the cross flow head makes for more efficient breathing. Helical cut and ground, carbon steel timing and PTO gears reduce noise.

**COOLING SYSTEM** - Standard keel cooling. Cast aluminum expansion tank with coolant recovery type filler cap. Thermostat for quick warm up and safety. Cast iron exhaust manifold has two pass jacket-water flow for even temperature control.

**FUEL SYSTEM** - Easy to service mechanical, direct injection fuel system. Spin on fuel filters with air bleed. Mechanical fuel transfer pump with manual priming plunger.

**INTAKE AND EXHAUST** - The M40C3 is fully compliant with US EPA Tier II emission standards. Its dry air filter silences intake noise.

**LUBRICATION SYSTEM** - Full flow, spin-on oil filter with bypass. 10.5 qt (10 ltr) center well oil pan. Closed crankshaft vent system keeps oil vapor inside engine for clean engine room.

**DC ELECTRICAL SYSTEM** - The DC System uses reliable relays instead of unrepairable printed circuit boards. 12 volt system includes circuit breaker, starter motor and alternator with integral regulator.

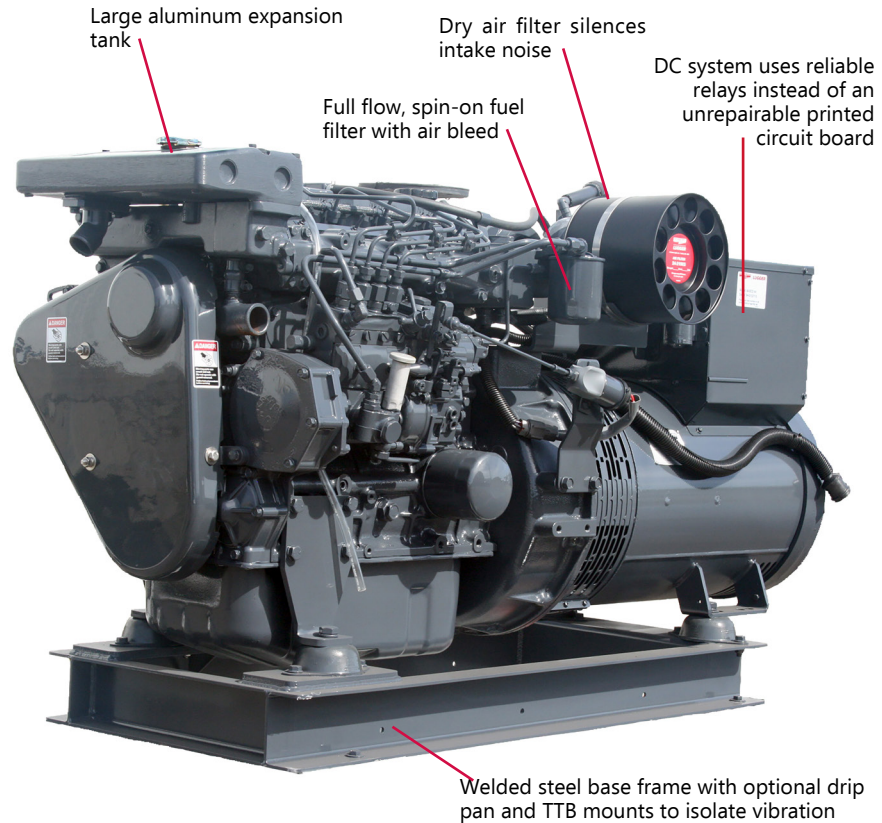
**CONTROLS** - Standard flush mount S-3C control panel has hour meter, oil pressure gauge, coolant temperature gauge, DC voltmeter,

stop-start switch and preheat switch. Expandable up to six panels, up to 110 feet from the set. Low oil pressure and high coolant temperature shutdowns are standard.

**AC GENERATOR** - The Northern Lights, direct coupled, four pole, revolving field, twelve lead re-connectable generator has Class "H" insulation and a pre-lubricated bearing and features a conservative heat rise rating of 95°C/50°C ambient. Engines and generators are torsionally matched for long life. Automatic Voltage Regulator (AVR) gives quick +/-1% RMS no load to full load voltage regulation.

**Special Equipment** - Northern Lights Commercial Series gensets are made for the demands of the marine environment, with features including a rugged, welded steel base frame, captive vibration isolation mounts and a belt guard for operator protection.

**Accessories and Optional Equipment** - Match your generator set to your job requirements. Optional equipment includes front power take-off (PTO) with 12 or 24V electric clutch and SAE B spline providing up to 55 HP. Heat exchanger cooling is available with 3 inch wet exhaust. Add a dry muffler with 18" SS flex. Alarms or shutdowns can be installed for low oil level, raw water flow and overspeed.



## SPECIFICATIONS AND DIMENSIONS

### AC Output<sup>1</sup>

40 kW	60 Hz, 1800 RPM
Voltage/Amperage	120/208 VAC, 139 A
Phase/power factor	Std: 3/0.8 (Opt. 1/1.0)
Voltage regulation	±1%

### Lugger L944T Engine

Type	Vertical inline 4 cylinder diesel
Displacement	202 in <sup>3</sup> (3.3 ltr)
Bore/Stroke	3.7/4.7 in (94/120 mm)
HP @ RPM	60 @ 1800

### Approx. fuel use

1800 RPM @ full load <sup>2</sup>	3.4 gph (12.9 lph)
1800 RPM @ half load <sup>2</sup>	1.8 gph (6.8 lph)

### Installation Data & Weight

Dry exhaust elbow	3 in (76 mm) OD
HE raw water inlet	0.75 in (19 mm) OD
KC coolant inlet / outlet	1.65 x 1.5 inch OD
Fuel inlet and return	0.35 inch OD, .31 inch OD

### Weight and Height

Approximate dry weight	1,370 lbs (621 kg)
Length	57.0 in (1447 mm)
Width	27.0 in (686 mm)
Height	36.7 in (932 mm)

1. Based on SAE J1995 and ISO 3046.

2. Actual fuel consumption will vary depending on operating conditions

\* Available only for Export – non-US flagged.