

## Features and Benefits

**Cooling System** Reliable and efficient cooling is built in to the L844D, thanks to its single-piece cast iron exhaust manifold, devoid of leak or breakage points.

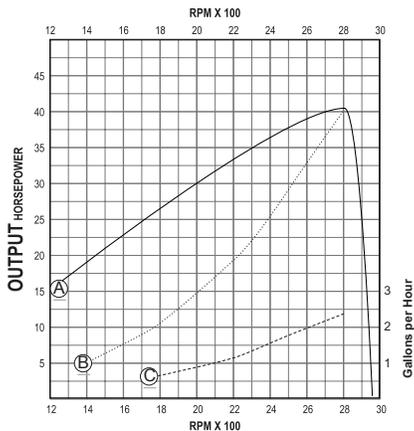
**Lubrication System** The L844D uses a gear-type, high capacity oil pump and a full flow filtration system. This technology filters particles large and small from the oil flow in a single unit.

**Air System** The L844D is designed to meet US EPA Tier II emission standards. Its air and ventilation systems are built to run as efficiency and cleanly as possible. The closed circuit crankcase vent traps oil vapors to keep the engine room and environment clean. The cast-iron wet exhaust elbow is unique in the marketplace and comes standard.

**Fuel System** The L844D combines the tradition of Northern Lights engineering excellence with the advances of modern technology. The fuel system is mechanically controlled, allowing for smooth, efficient horsepower in a package that is easy to understand and service.

**Electrical System** The L844D comes equipped with a 12 volt standard ground electrical system. Options include 12 volt isolated or 24 volt standard or isolated ground. The battery charging alternator and starter come standard, as does the control panel featuring tachometer, hourmeter, coolant temperature gauge, DC voltmeter, oil pressure gauge and key switch.

### Performance Data

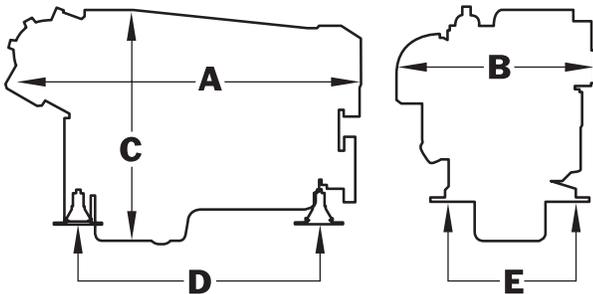


L844D			
RATING	HIGH OUTPUT*		
Curve	A	B	C
RPM	fwhp	pdph	gph
1200	15	--	--
1400	18.2	5	--
1600	22.7	7.5	--
1800	27	10.4	0.6
2000	30	14.8	0.9
2200	33	19	1.2
2400	36	25.5	1.6
2600	37.1	32.3	1.9
2800	40.5	40	2.4

\*Ratings based on SAE J-816B. Maximum cruise rpm for High Output is 300 rpm below highest attainable rpm.

Curves: A. Flywheel power. Prop shaft power is 3-3.5% lower due to marine reduction gear power loss. B. Theoretical prop power draw (3.0 exponent). C. Calculated fuel consumption based on theoretical propeller power draw. Your fuel consumption will vary higher or lower depending on your vessel and operating conditions.

### Dimensions



### Dealer

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Output rating	Performance
FWHP (kW)	40 (29.8)
Maximum RPM	2800
Cylinders/Configuration/Cycle	4 / Inline / 4
Displacement CID (ltr)	121 (1.9)
Aspiration	Natural
Bore x Stroke in (mm)	3.30 x 3.50 (84 x 90)
Cooling (General)	
Coolant circ pump flow - US gpm (lpm)	20.1 (76)
Heat rejection to jacket water - BTU-min	2204
Freshwater system capacity - US gal (ltr)	1.4 (5.3)
Cooling (Heat Exchanger)	
Raw water intake dia. - in (mm)	0.75 (19)
Raw water discharge dia. - in (mm)	0.75 (19)
Raw water pump flow - gpm (lpm)	14 (53)
Raw water pump max. suction head - in (m)	39 (1)
Max. raw water temp. at inlet - °F (°C)	86° (30°)
Cooling (Keel Cooled)	
Based on 70° F seawater and minimum full boat speed of 8 knots. Return water from keelcooler 70°-130° F.	
Water hose inside diameter - in (mm)	1.25 (31.5)
Head diameter - in	consult factory
Turbo tube length - ft (m)	consult factory
Skin cooler aluminum - sq ft (m <sup>2</sup> )	consult factory
Skin cooler steel - sq ft (m <sup>2</sup> )	consult factory
Electrical	
Voltage	12V standard ground (see options)
Min. battery capacity	120 amp hours / min. 560 CCA
Battery cable size up to 10 ft run	#1
Standard panel harness length - ft (m)	20 ft (6m) std, (10, 40 ft opt)
Air and Exhaust	
Engine air consumption - cfm (m <sup>3</sup> /min)	78 (2.21)
Min. engine room vent area - sq in (m <sup>2</sup> )	21 (226)
Exhaust gas flow at - cfm (m <sup>3</sup> /min)	234 (6.62)
Exhaust gas temperature - °F (°C)	1022 (550)
Max. exhaust back pressure - in (mm) H <sub>2</sub> O	48 (1220)
Suggested dry exhaust I.D. - in (mm)	2 (51)
Suggested wet exhaust I.D. - in (mm)	3 (76)
Fuel and Oil	
Minimum fuel suction line - in (mm)	0.3125 (8)
Minimum fuel return line - in (mm)	0.3125 (8)
Maximum fuel pump head - in (m)	39 (1)
Crankcase oil capacity - US qts (ltr)	8.6 (8.2)
Other Data	
Engine rotation (facing flywheel)	Counter-Clockwise
Flywheel housing size	Std. SAE 4
Optional front PTO size SAE # - inch	SAE B-Spline
Maximum operating angle any direction	35° for less then 2 minutes
Maximum installed operating angle	10° rear down - 0° front down
Keel Cooled Weight - without gear - lb (kg)	574 (260)
Heat Exchanger Weight - without gear - lb (kg)	587 (266)

**Overall Dimensions L x W x H:** 27.2 (691) x 19.8 (502) x 26.9 (682)  
 Dimensions given in inches (mm). Dimensions subject to change without notice.  
 Contact dealer or visit [www.northern-lights.com](http://www.northern-lights.com) for current installation drawings.  
 \*DO NOT USE FOR INSTALLATION. Contact factory for current installation drawings.

