

MARINE LCX

High Load Marine Oil



Features

- **MARINE LCX** is recognized by the following, and other, engine manufacturers:
 - MAN B&W
 - Mitsubishi
 - New Sulzer Diesel

Benefits

- High alkaline reserve - reduces acidic corrosion
- Dispersancy - keeps pistons and cylinders clean
- SAE 50 - reduces oil consumption and wear

MARINE LCX is a marine cylinder lubricant designed for use in the direct-injection quills of large crosshead marine diesel engines. It is a combination of quality, virgin paraffinic base oils that have a high natural Viscosity Index (VI), a very high alkaline metallic detergent, and an effective ashless dispersant.

Large crosshead marine diesels typically use high sulfur-content residual fuels, such as bunker oil, creating a very acidic environment for the piston and cylinder. The lubrication of the piston-cylinder is kept separate from that of the crankcase and this allows the use of oil tailored to the special needs of the piston-cylinder environment. Modern crosshead engines operate at very high cylinder pressures and **MARINE LCX** is designed to resist the high loads that these pressures impose on the piston ring and liner surfaces.

MARINE LCX is blended to a Total Base Number (TBN) of 70 and a SAE* 50 grade to provide the correct oil film thickness during engine operation. This film thickness prevents wear of the rings and cylinder liners and the oil's high alkalinity neutralizes the corrosive tendencies of the acidic combustion gases. TBN is a measure of the alkaline reserve available in the oil. The dispersant ability of this oil allows it to keep clean the cylinder ports, piston ring lands and under crown area.

MARINE LCX is intended for once-through lubrication of crosshead engine cylinders and is not suitable for the crankcase of trunk piston engines.

*SAE : Society of Automotive Engineers

MARINE LCX

Typical performance results

NAME	4050	7050
SAE GRADE	50	50
TOTAL BASE NUMBER (D-664)	40.9	69.1
VISCOSITY (D-445)		
cSt @ 40°C	235.2	209.9
cSt @ 100°C	19.7	19.4
VISCOSITY INDEX (D-2270)	96	105
POUR POINT (D-97) (°C)	-9	-9
FLASH POINT (D-92) (°C)	290	290
DENSITY @ 15°C (kg/l)	0.9205	0.9326

Available sizes & part numbers

	946mL (1 US quart)	3.78L (1 US gal)	18.9 L Pail (5.0 US gal)	205 L Drum (54.2 US gal)	1000L Cube (264 US gal)	Bulk
MARINE LCX 4050						B0099501
MARINE LCX 7050						B0032701

Check with sales representative or website for the latest product approvals.



Lubricants

www.irlinglubricants.com