



SHELL ALEXIA[®] 50

Premium low-speed diesel engine cylinder oil

Product Description

Shell Alexia[®]50 is a premium grade cylinder lubricant for use in marine and stationary low speed crosshead diesel engines, burning residual fuels with sulphur contents of up to 4.0%. It is ideally suited for the new generation of highly rated, fuel efficient, low-speed marine and stationary diesel engines operating with higher pressures, higher temperatures and longer strokes. It is a blend of highly refined, base oils, and a unique additive, technology developed by Shell Research.

Applications

- cylinder lubrication of low-speed marine and stationary diesel engines burning heavy fuel with a relatively high sulphur content of 1.0 to 3.5% .

Features/Benefits

- unique additive technology - contains outstanding neutralising properties to counter corrosive acids resulting from the use of high sulphur fuels
- minimize deposit formation - on critical parts such as cylinder ports, pistons, piston rings, ring grooves and under piston spaces
- low cylinder and piston ring wear - cylinder wear rates below 0.05 mm per 1000 hours have been experienced
- excellent engine cleanliness - keeps engines clean – even under extended intervals
- storage stability - product has demonstrated excellent stability in storage under varying conditions encountered aboard ship
- sight-glass fluid compatibility - compatible with all normal lubricator sight glass fluids
- service experience - over 35 years in close co-operation with ship-owners

Approvals and Recommendations

- approved by all manufacturers of slow-speed crosshead diesel engines

Oil Feed Rates

Insufficient cylinder oil feed rates can contribute to corrosive wear, seized and broken rings and consequently blow-by, and scavenge fire risks, and to the formation of excessive and tenacious deposits. To obtain optimum performance with Shell Alexia 50 it is important to:

- follow the engine manufacturers' recommended cylinder oil feed rates as the minimum.
- consider using higher rates, especially when running new liners and/or rings
- equally distribute the oil between injection quills
- ensure the lubricator drive system is well maintained and properly adjusted
- clean and overhaul lubricator boxes according to engine manufacturers' recommendations

Seal Compatibility

- compatible with normal oil seal materials.

Typical Properties of Shell Alexia 50

Product Code	Test Method	SAE Grade
		50
Property		63649
Gravity, °API	D 1298	28.2
Density, API	At 15 C	.936 Kg/l
Viscosity: @ 40°C, cSt	D 445	233
@ 100°C, cSt	D 445	19.5
Viscosity Index	D 2270	95
Flash Point, COC, °C (°F)	D 92	219 (430)
Pour Point, °C (°F)	D 97	-18 (0)
TBN-E, mg KOH/g	D 2896	70
Sulphated Ash, % wt	D 92	8.70

Handling & Safety Information

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.shell-lubricants.com/msds/>. If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please call **1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.