



Shell Alexia 100

- Proven performance
- Reliable protection

Cylinder Lubricant for two-stroke low speed diesel engines

Shell Alexia 100 is a cylinder lubricant designed for use in two stroke low speed diesel engines using residual fuel oil with high sulphur content. It is a BN100 and SAE 50 lubricant, formulated with proven and reliable technology.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

Reliable engine performance:

- Excellent acid neutralising properties, helping to prolong the life of components
- Minimal deposits on pistons, piston rings, ring grooves, under piston spaces and in cylinder ports; low cylinder and piston ring wear
- **Low maintenance costs:**
Keeps engines clean, minimizes maintenance requirements and allows periods between overhauls to be extended.

Reassurance:

- Completely stable in storage under the wide variety of conditions encountered aboard ships
- Proven ability to keep engines clean and control wear and scuffing
- Compatible with all normal oil seal materials

Main Applications

Shell Alexia 100 is a BN100 cylinder lubricant for use in low speed diesel engines burning heavy fuel oil. For detailed application advice based on your specific engine type and operating conditions, please refer to manufacturer's guidelines.

Specifications, Approvals & Recommendations

Shell Alexia 100 has been approved for use in:

- MAN-ES two stroke engine designs (provided the recommendations in the engine type specific guidelines are followed)
- WinGD two stroke engine designs (provided the recommendations in the engine type specific guidelines are followed)

- MHI two stroke engine designs (provided the recommendations in the engine type specific guidelines are followed)

Cylinder oil feed rates:

- Insufficient cylinder oil feed rate can lead to corrosive wear, seized and broken rings, and consequent blow-by and scavenge fire risks, and to the formation of excess deposits.

To obtain optimum performance with Shell Alexia 100 it is important to:

- Observe the engine manufacturer's recommended cylinder oil feed rates as a minimum
- Follow the manufacturer's feed rate recommendations when running in new liners and / or rings
- Ensure the lubricator drive system is well maintained and properly adjusted
- Clean and overhaul lubricator boxes according to manufacturer's recommendations.
- Regularly monitor lubricant performance through use of tools such as Shell LubeAnalyst and Shell LubeMonitor
For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

Compatibility & Miscibility

Mixing of cylinder lubricants

Shell Alexia 100 is fully miscible and compatible with all other cylinder lubricants in the Shell portfolio.

For optimum performance, Shell Alexia 100 should not be used in conjunction with other cylinder lubricants.

Typical Physical Characteristics

Properties		Method	Shell Alexia 100
SAE Viscosity Grade			50
Viscosity Index	minimum	DIN ISO 2909	95
Kinematic Viscosity	@100°C mm ² /s	ASTM D445	18.5
Density	@15°C kg/m ³	DIN EN ISO 12185	949
Flash Point	°C minimum	ASTM D93	210
Pour Point	°C maximum	ISO 3016	-6
BN	mg/KOH/g	ISO 3771	100
Sulphated Ash	% wt	Calculated Sulphated Ash	12.8

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

Health, Safety & Environment

• Health and Safety

Shell Alexia 100 is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from <https://www.epc.shell.com>

• Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

• Advice

Advice on applications not covered here may be obtained from your Shell representative.

