

Shell Marine

# SHELL ALEXIA 40

A LOW-SPEED, TWO-STROKE DIESEL CYLINDER OIL DESIGNED TO HELP YOU MEET THE IMO 2020 GLOBAL FUEL SULPHUR CAP

Shell  
Alexia



**Shell Alexia 40** has proven technology to provide reliable protection for engines using 0.5% sulphur fuel. It is currently being tested in engines running on very-low-sulphur (0.1%) fuel oil.



## SHELL ALEXIA 40

Formulated with  
**base number of**

# 40



Suitable for fuel containing **0.5% sulphur**

Field trials on  
**four ships**

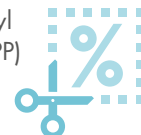


Has undergone **equipment manufacturers'** trials



Tested on the latest engine types with **IMO 2020 compliant fuels**

With low tetrapropenyl phenol technology (TPP) for **safer handling**



## PHYSICAL CHARACTERISTICS

| Properties                                      | Method                   | Shell Alexia 40 |
|---|--------------------------|-----------------|
| SAE viscosity grade                             |                          | 50              |
| Minimum viscosity index                         | DIN ISO 2909             | 95              |
| Kinematic viscosity at 100°C, m <sup>2</sup> /s | ASTM D455                | 18.5            |
| Density at 15°C, kg/m <sup>3</sup>              | DIN EN ISO 12185         | 915             |
| Minimum flash point, °C                         | ASTM D93                 | 210             |
| Maximum pour point, °C                          | ISO 3016                 | -20             |
| Base number (BN), mg KOH/g                      | ISO 3771                 | 40              |
| Sulphated ash, wt%                              | Calculated sulphated ash | 5.2             |

## APPROVALS

- MAN Energy Solutions
- WinGD
- Mitsubishi Heavy Engines

# IMO 2020 READY

Whatever your plan for meeting the IMO 2020 regulations, engine type or operating conditions, there is a Shell Alexia cylinder oil you can rely on.

## SHELL ALEXIA COMPLETE PRODUCT PORTFOLIO TO SUPPORT YOUR IMO 2020 STRATEGY

|                         | BN  | SAE viscosity grade | Product features  |
|-------------------------|-----|---------------------|---|
| <b>Shell Alexia 25</b>  | 25  | 50                  | 0.1% sulphur fuel, Emission Control Areas and liquefied natural gas <sup>1</sup>                      |
| <b>Shell Alexia 40</b>  | 40  | 50                  | 0.5% sulphur fuel <sup>1</sup>  |
| <b>Shell Alexia 70</b>  | 70  | 50                  | 0.5% sulphur fuel <sup>1</sup> (newer engines) and high-sulphur fuel oil (old vessels with scrubbers) |
| <b>Shell Alexia 100</b> | 100 | 50                  | High-sulphur fuel oil + scrubber (newer engines) <sup>1</sup>   |
| <b>Shell Alexia 140</b> | 140 | 60                  | High-sulphur fuel oil + scrubber (newer engines) <sup>1</sup>   |

<sup>1</sup>For detailed application advice based on your specific engine type and operating conditions, please refer to manufacturers' guidelines.

## TECHNICAL SERVICE SOLUTIONS

In line with engine manufacturers' recommendations, we advocate engine monitoring to help give you an indication of engine condition and the optimum cylinder oil feed rate to use.

### WE OFFER A SUITE OF TECHNICAL SERVICES, INCLUDING

#### Shell LubeAnalyst

A flexible used-oil laboratory analysis service designed to save you time and money on maintenance resulting from equipment failure. This early-warning system aims to give you peace of mind that your equipment and lubricants are in optimum working order.

#### Shell LubeMonitor

A condition monitoring programme for two-stroke engines that includes access to Shell tools and advice to help you strike an acceptable balance between cylinder oil costs and wear-related cylinder maintenance expenses

#### Shell LubeAdvisor

This on-site support from a global team of field-based engineers includes lubrication surveys, vessel assessments and in-depth technical and applications support when required. Back-up support is provided by telephone, fax or email

#### Shell LubeCoach

A high-quality, modular and tailored programme designed to help your staff realise the benefits of a well-designed lubrication plan. Delivered by technical specialists with substantial field experience, offering practical insights to best practice techniques

#### Shell LubeExpert

Specialist on-site critical application support and inspections by application, marine and product experts



### TALK TO OUR TEAM

If you would like to know more about Shell Alexia or our technical services, please get in touch with our team.

Visit [shell.com/marine](https://shell.com/marine)