



Shell Sirius 15W-40

Oil for high speed marine diesel engines

Shell Sirius 15W-40 is a high performance, multifunctional diesel engine lubricant designed for use in modern high speed (> 1200rpm) diesel engines, burning distillate fuels with a sulphur content of up to 1% wt.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Unique new formulation**
Shell technologists have developed exclusive formulations for the new generation of Sirius designed to deliver a step change in performance levels to improve the efficiency and life of your machinery.
- **Greater protection and higher temperatures**
With increasing power, modern engines have to work harder for longer, resulting in increased heat and stress on the engine oil. Sirius has been demonstrated to provide increased resistance to thermal breakdown ensuring continued protection throughout the drain interval, even under the most severe conditions.
- **Longer oil life**
With their exclusive additive formulations, the new Sirius oils can fight the combined effects of combustion acids and increased heat for longer than their predecessors. This performance reserve ensures the oil continues to protect against wear and corrosion right up until the oil drain.
- **Approved by leading engine makers**
The new formulation Sirius engine oils meet a wide range of engine maker requirements.

Main Applications

- **High speed propulsion engines**
For example coastal vessels, fishing trawlers, rescue boats and lifeboats.
- **High speed engined generators**

Specifications, Approvals & Recommendations

- Caterpillar ECF-1
- Cummins CES 200-71,-72, 76
- Cummins (B&C Series) CES 200-75
- MTU MTL 5044 Category 1 / 2
- Mercedes Benz 228.3
- MAN 3275
- Volvo VDS 2
- API CH-4
- ACEA E3, E5

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

Typical Physical Characteristics

Properties			Method	Shell Sirius 15W-40
SAE Viscosity Grade				15W-40
Kinematic Viscosity	@40°C	mm ² /s	ASTM D445	105.1
Kinematic Viscosity	@100°C	mm ² /s	ASTM D445	14.3
Dynamic Viscosity	@-15°C	mPa*s	ASTM D5293	-
Dynamic Viscosity	@-20°C	mPa*s	ASTM D5293	6600
Dynamic Viscosity	@-25°C	mPa*s	ASTM D5293	-
Viscosity Index			ASTM D2270	139
Density	@15°C	kg/m ³	ASTM D4052	886
Flash Point PMCC			ASTM D93	205
Pour Point			ASTM D97	-39

Properties		Method	Shell Sirius 15W-40
TBN	mg KOH/g	ASTM D2896	10.8
Sulphated Ash	%	ASTM D874	1.44

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 Sirius 15W-40 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 Material Safety Data Sheet, which can be obtained from <http://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.