

# 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 all modern high speed (> 1200rpm) diesel engines, burning distillate fuels with a sulphur content of up to 1% wt.

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### Applications

- **High speed propulsion engines**  
e.g. coastal vessels, fishing trawlers, rescue boats and lifeboats
- **High speed engine generators**

### Performance Features and 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.

### Specification and Approvals

Sirius 15W-40 multigrade meets:

API	CH-4
ACEA	E3, E5
Caterpillar	ECF-1
Cummins	CES 200-71,-72, 76
Cummins (B&C Series)	CES 200-75
GM Allison	C-4

and is approved against:

MTU	MTL 5044 Category 1 / 2
Mercedes Benz	228.3
MAN	3275
Volvo	VDS 2

### Health and Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet which can be obtained from your Shell representative.

### Protect the environment

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

## Typical Physical Characteristics

Sirius			
<b>SAE Viscosity grade</b>			15W-40
<b>Kinematic Viscosity</b>		IP 71, ASTM D445	
at 40°C	mm <sup>2</sup> /s		105.1
at 100°C	mm <sup>2</sup> /s		14.3
<b>Dynamic Viscosity</b>		ASTM D 5293	
at -15°C	mPa*s		-
at -20°C	mPa*s		6600
at -25°C	mPa*s		-
<b>Viscosity Index</b>		ISO 2909, ASTM D2270	139
<b>Density at 15°C</b>		IP 365, ISO12185	886
<b>Flash Point PMCC</b>		IP 94, ASTM D93	205
<b>Pour Point</b>		ISO 3016, ASTM D97	-39
<b>TBN</b>		ISO 3771, ASTM D2896	10.8
<b>Sulphated Ash</b>		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.