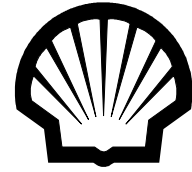


Shell Sirius X

Super High Performance Diesel Engine Oil



Shell Sirius X is a top quality lubricant, of the Super High Performance Diesel Engine Oil (SHPDO) class. It is designed for the highest output, high-speed diesel engines, burning distillate fuel and is formulated to give better engine protection and longer drain intervals than normal diesel engine oils.

Shell Sirius X is especially suitable for the high power/weight units used in fast vessels and compact generator sets.

Applications

- High-speed diesel engines operating on distillate fuels.
- N.B. Not suitable for N. American automotive type engines, for which API CF-4 type oils are required.

- MTU (Type II high performance category)
- CWEC (Cummins Wartsila Engine Company)
- MWM Deutz (high output, high speed, e.g. TBD 620)

and meets the requirements of:

- Caterpillar 3600 Series

Performance Features

- **Outstanding piston cleanliness**
Free-running piston rings, even under difficult operational conditions, ensuring maximum reliability.
- **Exceptional protection against bore polishing**
Control of blow-by and oil consumption, preserving engine efficiency. SHPDO type oils are preferred by many engine manufacturers to guard against bore polishing.
- **Exceptional engine cleanliness**
Ability to retain high levels of soot safely in suspension, even with extended drain intervals.
- **Oxidation resistance twice that of conventional oils**
Ability to withstand high temperatures for longer, in severe service or with extended drain intervals.
- **High reserve alkalinity**
A TBN-E (total base number) of 17 to neutralise acids and provide corrosion protection until the next drain interval, even with the higher sulphur levels sometimes found in marine distillate fuels.

Advice

Advice on applications not covered in this leaflet may be obtained from your Shell Representative

Health & Safety

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

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

For further guidance on Product Health & Safety refer to the appropriate Shell Product Safety Data Sheet.

Protect the environment

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

Performance Specifications

API CF

Approvals and Recommendations

Shell Sirius X is approved by:

Typical Physical Characteristics

Shell Sirius X	30	40
SAE Viscosity Grade	30	40
Kinematic Viscosity @ 40°C, cSt	101	139
@ 100°C, cSt	11	14
Density @ 15°C, kg/l	0.885	0.890
Flash Point, Closed Cup, °C	218	230
Pour Point, °C	-18	-18
TBN-E, mg KOH/g	17	17
Sulphated Ash, % wt	1.85	1.85

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