



# Star Marine 500

## High-Speed Diesel Engine Oil

Product Data Sheet

### Customer benefits

#### **Saves on fleet maintenance costs**

Metallic detergent and ashless dispersant additive system provides both high temperature deposit control in diesel engines and low temperature sludge control in gasoline engines. High oxidation stability protects against the formation of gums and varnish at elevated temperatures, and resists thickening, and oil line and filter plugging.

#### **Longer engine life**

Proven metallo-organic anti-wear additive system protects against wear of critically loaded components under all operating conditions. Multigrade viscosity provides additional protection against wear at start-up and under high temperature operating conditions.

#### **Maintains high power and performance**

Metallic detergent and ashless dispersant additive system maintains high power and performance by providing very good upper-ring-belt deposit control, particularly under the high temperatures encountered in turbocharged diesel engines.

#### **Low inventory costs**

Mid-ash, medium dispersancy formulation provides very good overall performance in mixed fleets of different engine designs, allowing fewer oils to be stored and reducing

### Applications

- High speed diesel engines in coastal and inland marine main powerplant service where SAE 20W-50 viscosity grade oils of API CF-4 or lower performance are required.
- High speed diesel engines in coastal and inland marine auxiliary powerplant service where SAE 20W-50 viscosity grade oils of API CF-4 or lower performance are required.

### Product features:

- Star Marine 500 is a multigrade, heavy-duty diesel engine oil specially designed to lubricate older high-speed diesel engines requiring API CF-4 or API CF performance lubricants.



## Product specifications

STAR MARINE 500	
KEY PROPERTIES	
SAE Grade	20W-50
Product Code	560079
Base No.,	
D2896, mg KOH/g	9.6
D4739, mg KOH/g	8.2
Sulfated Ash, m %	1.1
Viscosity,	
mm <sup>2</sup> /s @ 40°C	174
mm <sup>2</sup> /s @ 100°C	19.1
Viscosity Index	125
Zinc, m %	0.14

## ENVIRONMENT, HEALTH and SAFETY

Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal.

To obtain a MSDS for this product, visit:  
[www.caltex.com](http://www.caltex.com).

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## Performance standards

- API CF, CF-4

## Service considerations

Star Marine 500 is intended for use in older high-speed diesel engines, typically those operating at 1500 rev/min or above, and burning distillate fuels.

It is not suitable for use in later model engines where oils meeting API CG-4 or higher, or OEM specifications, such as those from Caterpillar and Cummins, are required. Nor is it suitable for use in European engines where ACEA or CCMC classified oils are required, or in Japanese engines where oils meeting JASO DH-1 or the previous "Japanese CD" industry guideline are required

Star Marine is not intended for use in medium-speed engines, and in particular it is not suitable for use in engines equipped with active purification systems including centrifuges.

Always follow engine builder service instructions in respect of oil viscosity grade and performance level selection and drain interval.

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered

representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

Produced by:  
**Chevron Lubricants**  
- Asia Pacific