



CHEVRON MARINE ENGINE OILS DELO[®] 477 CFO

SAE 20W-40, 40

CUSTOMER BENEFITS

Chevron Marine Engine Oils Delo 477 CFO deliver value through:

- **Ability to maximize oil and filter life**
- **Improved wear control**
- **Extended oil drain intervals** — Improved oxidation and viscosity control. Enhanced alkalinity retention
- **Potential fuel and lubricant savings** — Chevron Marine Engine Oil Delo 477 CFO SAE 20W-40 reduces fuel and oil consumption compared to single grade oils.
- **Proven superior field performance**
- **Elimination of chlorine related disposal issues** — Nonchlorinated additives eliminate the confusion and cost associated with disposal of typical chlorine containing zinc free used oils.

FEATURES

Chevron Marine Engine Oils Delo 477 CFO are superior high dispersancy, high alkalinity, 17 Base Number engine oils.

They are manufactured using the highest quality paraffinic¹ base oils, a nonchlorinated additive package, and newly developed dispersant and detergent technology. Chevron Marine Engine Oils Delo 477 CFO SAE 20W-40 includes a dispersant viscosity index improver.

They are designed for medium-speed diesel engines commonly used in:

- inland and coastal marine vessels
- oil service vessels
- power generation engines
- and other applications using EMD or locomotive-type diesel engines where a zinc-free Generation 5 lubricant is required.

APPLICATIONS

Chevron Marine Engine Oils Delo 477 CFO are recommended:

- for use in EMD, GE, Fairbanks Morse, and other diesel engines operating in marine service, electric generating plants, offshore drilling equipment, and many other applications requiring a high base number, oil in severe medium speed service.
- for use in Caterpillar and other diesel engines operating where sulfated ash levels above 1% are acceptable.
- where large medium speed diesel engines are used for primary power and DDC engines are used for auxiliary power. Detroit Diesel Corporation approves the use of Generation 4 and 5 zinc free engine oils in these applications.

Chevron Marine Engine Oils Delo 477 CFO:

- meet the requirements of **API Service Categories** CF, CF-2
- are qualified by the **Electro Motive Division of General Motors** for use in engines operating under EMD factory warranty
- are fully approved by **General Electric**

1. All West Coast supply is manufactured using Chevron's patented hydrocracked ISODEWAX-ING base oil technology

TYPICAL TEST DATA

SAE Grade	20W-40	40
<i>CPS Number</i>	235071	235070
<i>MSDS Number</i>	6713	6713
API Gravity	28	27
Viscosity, Kinematic cSt at 40°C	138	144
cSt at 100°C	15.4	14.8
Viscosity Index	115	101
Flash Point, °C(°F)	252(486)	263(505)
Pour Point, °C(°F)	-27(-17)	-18(0)
Sulfated Ash, wt %	2.0	2.0
Base Number, ASTM D 2896	17	17
Zinc, ppm	<10	<10

Typical test data are average values only. Minor variations, which do not affect product performance, are to be expected in normal manufacturing.