



15W40 multigrade oil for highly rated diesel engines.

### APPLICATIONS

High speed engines running under very severe conditions.

Recommended for life boat engines and emergency power units under cold conditions.

Particularly suited to the lubrication of engines running under very severe conditions.

### FEATURES AND BENEFITS

**DISOLA W** offers excellent thermal stability and oxidation resistance, guaranteeing effective engine lubrication in severe conditions.

Outstanding detergent, dispersant and anti-wear properties keep the engine clean and enable effective control of soot, sludge and piston deposits.

**DISOLA W** exhibits important alkaline reserve to neutralize acid compounds coming from the combustion.

Anti-wear and anti-corrosion additives used in **DISOLA W** ensure longer engine and transmission durability.

### SPECIFICATIONS AND APPROVALS

✓	API CI-4/CF	✓	Cummins CES 20076/77/78	✓	MAN M3275-1
✓	ACEA A3/B3/B4/E7-16	✓	Deutz DQC III-10	✓	MTU Type 2
✓	Caterpillar ECF-1a/ECF-2	✓	Detroit Diesel DDC 93K215	✓	Volvo VDS 3

### TECHNICAL DATA : DISOLA W

CHARACTERISTICS	METHODS	UNITS	TYPICAL VALUES*
S.A.E. Grade	—	—	15W40
Density at 15°C	ISO 3675	kg/m <sup>3</sup>	888
Kinematic viscosity at 40°C	ISO 3104	mm <sup>2</sup> /s	99
Kinematic viscosity at 100°C	ISO 3104	mm <sup>2</sup> /s	13.4
Viscosity index	ISO 2909	—	136
Flash Point (COC)	ASTM D 92	°C	> 220
Pour Point	ISO 3016	°C	- 30
BN	ASTM D 2896	mgKOH/g	11
Sulphated ashes		% mass	1.45

\*The specifications above are for illustrative purposes and communicated for information only.

## CUSTOMER BENEFITS

✓	The <b>DISOLA W</b> range exceeds the CI-4F specification defined by the American Petroleum Institute (API). Meets ACEA B4-12, A2-96, E3-96.
✓	Very stable multigrade feature enabling the lubricant to be used in all seasons.
✓	Easier engine starts under cold conditions.
✓	The stable viscosity of <b>DISOLA W</b> means that in service fewer top-ups are needed.
✓	The product is also very water resistant, with outstanding demulsibility capacity, enabling rapid removal of water after an ingress and the maintenance of good engine performance.

## GENERAL RECOMMENDATIONS

### COMPATIBILITY

Compatible with **generally available trunk piston lubricants**.

Please consult your Total Marine Lubrication Engineer should you have any questions.

### SHELF LIFE

5 years from date of manufacture.

### STORAGE

This product should be stored under cover in clean, dry conditions and protected from frost.

Recommended storage temperature range is 5°C to 50°C.

Drums that are stored on deck should be raised on pallets and covered to protect from the elements.

Always check regularly for leakage.

## COMPLIMENTARY PRODUCTS AND SERVICES

✓	<b>WT Supra</b> — Innovative and environmentally friendly cooling system inhibitor concentrate.
✓	<b>DiagomarPlus</b> — Laboratory based used oil analysis program.
✓	<b>Tech'Care</b> — Suite of onboard testing kits.
✓	<b>Technical Expertise &amp; Support</b> — Total Lubmarine engineers are on hand at worldwide locations to assist with lubrication concerns.
✓	<b>Lube-On-Ship</b> — Visualize your lube oils needs aboard Total Lubmarine's innovative virtual vessel.

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This lubricant used as recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet conforming to the regulations in can be obtained via your Total Lubmarine technical advisor or from [sdstotalms.total.com](http://sdstotalms.total.com)

