



# CAPRANO TDI 15W-40



**Mineral lubricant for fast-running Diesel engine used in navigation.**

## SPECIFICATIONS AND APPROVALS

International specifications	ACEA E7/E5	API CI-4 / CH-4
<b>Manufacturers' approvals</b> <i>Engine</i> <ul style="list-style-type: none"><li>✓ Baudouin Performance B</li><li>✓ Cummins CES 20078/20077/20076</li><li>✓ MTU Category 2</li><li>✓ Volvo VDS-3</li></ul> <i>Reduction drive/Reversing gear</i> <ul style="list-style-type: none"><li>✓ ZF TE-ML 04C</li></ul>	<b>Meets the requirements of</b> <ul style="list-style-type: none"><li>✓ Caterpillar ECF-2</li></ul> <b>Suitable for the following engines</b> MITSUBISHI (medium speed)	

## APPLICATIONS

TOTAL CAPRANO TDI 15W-40 is suitable for **fast-running Diesel engines** used in **navigation**, especially recent technologies with exhaust gas recirculation, that meet **European standard Stage IIIA** and **American standard EPA Tier 3**.

TOTAL CAPRANO TDI 15W-40 is also adapted to auxiliary systems and transmissions.

## PERFORMANCES AND CUSTOMER BENEFITS

TOTAL CAPRANO TDI 15W-40 contains excellent **viscosity stability in service**, 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.

**Excellent piston cleanliness performance** affords effective protection against cylinder liner polishing.

Its **anti-wear and anti-corrosion additives** ensure longer engine and transmission durability.

## PHYSICAL AND CHEMICAL CHARACTERISTICS\*

TOTAL CAPRANO TDI 15W-40		Method	Value
Density at 15°C	kg/m <sup>3</sup>	ASTM D1298	889
Kinematic Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D445	100
Kinematic Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D445	13.6
Viscosity Index	-	ASTM D2270	136
Pour point	°C	ASTM D97	-30
T.B.N	mgKOH/g	ASTM D2896	11
Sulphated Ash	% m/m	ASTM D874	1.45

\* The features mentioned above are average values obtained with some variability in production and do not constitute a specification.

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[www.lubricants.total.com](http://www.lubricants.total.com)



This lubricant does not cause adverse health effects when used in the intended application.  
A safety datasheet is accessible on request from your local dealer or on the website [www.quickfds.com](http://www.quickfds.com)