



# Technical Data

PRODUCT TECH

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## TD-1 SUPER DIESEL MOTOR OIL

SAE: 15W-40

### >>Description

TD-1 is a blend of hydro-processed petroleum base oils, special polymers and the proprietary MPZ® additive system focused on superior performance and engine protection. The special detergents and dispersants contained in TD-1 keep sulfated ash to a minimum (low SAPS). TD-1 is fortified with oxidation and corrosion inhibitors, high temperature anti-wear additives and foam inhibitors to protect vital parts during long drain service. It is designed to give excellent performance in all 2007 emission compliant engines using ultra low sulfur diesel fuel (ULSD).

### >>Features

- > Increases fuel mileage
- > High TBN with low SAPS
- > Oxidation and corrosion inhibitors
- > Extends oil drain intervals
- > Minimizes sulfated ash

### >>Application

Recommended for all EPA 2007 compliant engines using DPF after treatment device and ULSD fuel that specify CJ-4 / CI-4 plus / CI-4 / CH-4 / CG-4 / CF-4 /CF / SM, & European and OEM claims. Also meets ACEA E7, MB 228.3, Volvo VDS-4, Cummins CES 20081, Mack EO-O premium plus'07, Caterpillar ECF 3 & ECF1, DDC PGOS 93 K 218, MAN 3275, MTU Type II specification. TD-1 is formulated using Torco's proprietary additive technology.

### >>Typical/Test Data

SAE Grade	ASTM#	15W-40
Appearance	Visual	Amber
API Gravity	D-287	29.9
Viscosity @ 100°C	D-445	15.0
Viscosity @ 40°C	D-445	n/a
Viscosity Index	D-2270	140
Pour Point, °C	D-97	-35
Flash Point, °C	D-92	440
TBN	D-2896	8.5
CCS Viscosity, cP @ °C	D-2602	4500@-20
Sulfated Ash, Wt %		1.0

### >>Directions

Follow manufacturer's fill level requirements. Compatible with other petroleum and synthetic lubricants.

### >>Package Sizes / P/N

SAE Grade	15W-40
4-Liter (4.224 US QT)	A181540FE
6/4-Liter Case	A181540F
5 Gallon Pail	A181540E
55 Gallon Drum	A181540B



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