

*Lubricants – Transmission Oils – Automotive*

Version: **265/03**

## **Valvoline<sup>™</sup> Heavy Duty TDL Pro 75W-90**

*Premium full synthetic gear oil for trucks and buses.*

*Total Drive Line oil suitable for gearboxes and differentials under severe conditions.*

For use in the total drive line when the manufacturer specifies a GL-4 or GL-5 lubricant. This superior quality automotive gear oil has performance capabilities that allows it to have optimal performances in a very wide range of applications.

<b>O.E.M Approvals</b>
MAN 341 type Z2 (ZF)
MAN 342 type S1
MB-Approval 235.8
SAE J2360
Scania STO 1:0
Volvo 97312
ZF TE-ML 05A, 12L, 12N, 16F, 17B, 19C, 21A (ZF001283)

<b>Performance levels</b>
API: GL-4, GL-5, MT-1
Arvin Meritor Axles 0-76-N
Mack GO-J
MAN 341 type E3 (Eaton)
MAN 342 type M3

### **Features & Benefits**

#### **Excellent protection**

Optimum protection against wear and tear, also under high stress working conditions.

#### **Advanced additives**

Advanced additives protect against corrosion, oxidation, foaming, and deposits.

#### **Breakdown resistance**

Premium synthetic base oils, balanced additive system avoid breakdowns even with extended drains.

#### **Consistent, stable viscosity**

Excellent viscosity-temperature properties even at very low temperatures. Highly stable viscosity with long-term multigrade advantages.

#### **Extra long drain intervals**

Approved according to MAN 342 S1 for a 500.000km drain interval.

#### **Fuel economy properties**

Less friction by using synthetic base oils contributes to better fuel economy. Increased oil circulation provides excellent cooling properties resulting in further fuel savings.

#### **Applications**

For use in the total drive line when a GL-4 or GL-5 is specified by the manufacturer.

Recommended for conventional as well as ultra modern gearboxes and transmissions of commercial vehicles.

For:

- ZF Gearboxes
- Eaton Axles
- Transferboxes

**Not** suitable for limited slip applications.

# PRODUCT INFORMATION



## Keeping the world moving since 1866™

Serving more than 100 countries around the globe, Valvoline is a leading marketer, distributor and producer of quality branded automotive and industrial products and services. Products include automotive lubricants; transmission fluids; gear oils; hydraulic lubricants; automotive chemicals; specialty products; greases, and cooling system products.

For more information on Valvoline products, programs and services please visit [www.valvolineeurope.com](http://www.valvolineeurope.com)

## Typical properties

Typical property characteristics are based on current production. Whilst future production will conform to Valvoline specifications, variations in these characteristics may occur.

<b>Valvoline Heavy Duty TDL Pro</b>	
<b>SAE Viscosity Grade</b>	75W-90
<b>Viscosity, mm<sup>2</sup>/s @ 100 °C.</b> ASTM D-445	15,0
<b>Viscosity, mm<sup>2</sup>/s @ 100 °C.</b> After shearing (CEC: L-45-T-93).	Stay-in-grade
<b>Viscosity, mm<sup>2</sup>/s @ 40 °C.</b> ASTM D-445	101
<b>Viscosity Index</b> ASTM D-2270	154
<b>Viscosity, mPa.s -40°C.</b> ASTM D-5293	<150.000
<b>TAN, mg KOH/g</b> ASTM D-664	2,0
<b>TBN, mg KOH/g</b> ASTM D-2896	5,0
<b>Pour Point, °C</b> ASTM D-5950	-48
<b>Specific Gravity @ 15.6°C.</b> ASTM D-4052	0,865
<b>Flash Point, COC, °C.</b> ASTM D-92	194

**This information only applies to products manufactured in the following location(s):  
Europe**

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## Health & Safety

This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office or via the internet <http://msds.valvoline.com>

## Protect the environment

Take used oil to an authorized collection point. Comply with local regulations. Do not discharge into drains, soil or water.

## Storage

We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.

Replaces – 265/02