

## Lubricants – Transmission Oils – Automotive

Version: 270/03

# Valvoline<sup>™</sup> Heavy Duty Axle Oil Pro 80W-90

*Premium Heavy Duty axle oil for trucks and buses.*

*Very versatile lubricant suitable for differentials and other types of power transmission under severe conditions.*

It can be used in the driveline when the manufacturer specifies a GL-5 lubricant. This premium automotive axle oil has performance capabilities that enable best operational conditions in the most demanding application.

### O.E.M. approvals

MB-Approval 235.0
MAN 342 Type M-2
ZF TE-ML 02B, 05A, 12L, 12M, 16B, 17H, 19B, 21A (ZF001869)

### Performance levels

API GL-5, MT-1
Arvin Meritor 0-76-D
Scania STO 1:0
DAF*
Iveco*
MAN 341 Type Z-2 and E-2
MACK GO-J
MIL-PRF-2105E
SAE J2360
ZF TE-ML 07A, 08, 16C, 16D

\*Check owner manual

## Features & Benefit

### Superior protection

Superior protection against wear and tear, also under high stress working conditions. Reduces oil leakage.

### Advanced additives

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

### Breakdown resistance

Premium synthetic base oils and a balanced additive system avoid breakdowns even between extended drains.

### Consistent, stable viscosity

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

### Fuel economy properties

Smoother shifting contributes to better fuel economy. Increased oil circulation provides excellent cooling properties resulting in further fuel savings.

### API MT-1

API MT-1 spec provides protection against the combination of thermal degradation, component wear, and oil seal deterioration.

### Applications

Suitable for use in the total driveline when GL-4 and GL-5 are specified by the manufacturer.

For:

- ZF
- Eaton
- Transferboxes

**Not** 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.

Valvoline Heavy Duty Axle Oil Pro	
<b>SAE Viscosity Grade</b>	80W-90
<b>Viscosity, mm<sup>2</sup>/s @ 100 °C.</b> ASTM D-445	15,4
<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	148
<b>Viscosity Index</b> ASTM D-2270	106
<b>Viscosity, mPa.s -26°C.</b> ASTM D-5293	<150.000
<b>Pour Point, °C</b> ASTM D-5950	-33
<b>Specific Gravity @ 15.6°C.</b> ASTM D-4052	0,895
<b>Flash Point, COC, °C.</b> ASTM D-92	>200

**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 – 270/02