

# PRODUCT INFORMATION



*Lubricants – Transmission Oils – Automotive*

Version: **259/04**

## **Valvoline™ Heavy Duty Axle Oil Pro 80W-90 LS**

*Limited Slip Axle oil for trucks, buses, and other vehicles.*

*EP gear oil suitable for limited slip differentials and transaxles where the manufacturer recommends a GL-5 LS transmission oil.*

Valvoline Heavy Duty Axle Oil Pro 80W-90 LS provides increased protection and lubrication of the limited slip differential over a wide temperature range.

### **OEM Approvals**

ZF TE-ML 05C, 21C (ZF001996)

### **Performance levels**

API GL-5

ZF TE-ML 07A

ZF TE-ML 08

### **Applications**

Suitable for limited slip differentials of trucks, buses and other heavy duty vehicles where the manufacturer recommends a GL-5 LS transmission oil with a viscosity of SAE 80W-90.

### **Features & Benefits**

#### **Increased protection**

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

#### **Advanced additives**

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

#### **Breakdown resistance**

Quality base oils and a highly balanced additive system avoid breakdowns even after long-time use.

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

Increased viscosity-temperature properties even at very low temperatures. Highly stable viscosity with long lasting lubricating properties.

#### **Limited slip properties**

Premium base oils and additives provide excellent limited slip properties resulting in suppressing the noise that can occur in limited slip axles.

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## 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 <https://www.valvolineglobal.com/en-eur/> or <http://pisheets.valvolineglobal.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 LS	
SAE Viscosity Grade	80W-90
Viscosity, mm <sup>2</sup> /s @ 100°C ASTM D-445	14,3
Viscosity, mm <sup>2</sup> /s @ 100 °C After shearing (CEC: L-45-T-93)	Stay-in-grade
Viscosity, mm <sup>2</sup> /s @ 40°C ASTM D-445	127,0
Viscosity Index ASTM D-2270	113
Viscosity, mPa.s -26°C ASTM D-5293	< 150 000
TAN, mg KOH/g ASTM D-664	2,7
Pour Point, °C ASTM D-5950	-33
Specific Gravity @ 15.6°C ASTM D-4052	0,890
Flash Point, COC, °C ASTM D-92	218

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

## 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://sds.valvolineglobal.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.

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