Lubricants – Transmission Oils – Automotive

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.

™ Trademark, Valvoline Global Operations



Keeping the world moving since 1866™
Serving more than 100 countries around the globe, Valvoline Global Operations 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 **https://pisheets.valvolineglobal.com**

Health & Safety
For more information about environment requirements, product safe handling, storage, and disposal, please refer to the product Safety Data Sheet (SDS) available at **https://sds.valvolineglobal.com**

Typical properties

Valvoline Heavy Duty Axle Oil Pro LS	
SAE Viscosity Grade	80W-90
Viscosity @ 100ºC, mm^2/s ASTM D445	14.3
Viscosity @ 100 ºC, mm^2/s After shearing (CEC: L-45-T-93)	Stay-in-grade
Viscosity @ 40ºC, mm^2/s ASTM D445	127
Viscosity Index ASTM D2270	113
Viscosity @ –26°C, mPa.s ASTM D5293	< 150 000
TAN, mg KOH/g ASTM D664	2.7
Pour Point, ºC ASTM D5950	-33
Density @ 15°C, g/cm^3 ASTM D4052	0.890
Flash Point, COC, ºC ASTM D92	218

*****The data provided is for reference only and can be applied only for the specific production location.

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

Effective date: 7/6/2026

™ Trademark, Valvoline Global Operations