



Mobilube™ HD-A Plus 80W-90

Mobil Commercial Vehicle Lube , Bosnia

Automotive Gear Lubricant

Product Description

Mobilube HD-A Plus 80W-90 is engineered for commercial transmissions, axles, and final drives where extreme pressures and shock loading are expected and is recommended by ExxonMobil for applications where API GL-5 service is required. It is formulated from high performance base oils and an advanced additive system. This lubricant is a heavy duty gear lubricant allowing extended oil drain intervals predominantly in Mercedes Benz axles.

Features and Benefits

Today's heavy equipment applications place higher performance demands on drive-train lubricants. Higher speeds, higher torque, and heavier loads require improved formulations to maximise equipment life and minimise operating costs. Longer service intervals place additional demands on the gear lubricant requiring effective basestock and additive systems. Mobilube HD-A Plus 80W-90 gear lubricant is engineered to address these challenges. The key benefits include:

Features	Advantages and Potential Benefits
Excellent thermal stability and resistance to high temperature oxidation	Long gear and bearing life due to minimal deposits. Long seal life.
Enhanced protection against low speed/high torque wear and against high speed scoring especially in heavily loaded rear axles	Increased load carrying capability Reduced maintenance costs and longer equipment life
Effective rust and corrosion protection	Reduced wear and longer component life
Multipurpose capability	Reduced number of gear lubricants required
Compatible with typical automotive seals and gaskets	Minimum leakage and reduced contamination
Extended drain capability	Increased productivity and reduced operating costs

Applications

Recommended by ExxonMobil for use in:

- Heavy duty automotive manual transmissions, axles, and final drives requiring API GL-5 level performance
- On highway cars and light trucks; heavy duty commercial vehicles
- Off highway industries including: construction, mining, quarrying, and agriculture
- Other gearboxes, steering gears and variable gearboxes
- Other heavy duty industrial and automotive applications involving hypoid gears operating under conditions where high speed/shock load, high speed/low torque, and/or low speed/high torque prevail

Specifications and Approvals

This product has the following builder approvals:
MAN 342 Typ M3

**This product has the following builder approvals:**

MB-Approval 235.20

ZF TE-ML 05A

ZF TE-ML 12L

ZF TE-ML 12M

ZF TE-ML 17B

ZF TE-ML 16B

ZF TE-ML 19B

ZF TE-ML 21A

**This product meets or exceeds the requirements of the following industry and builder specifications:**

API GL-5

Scania STO 1:0

ZF TE-ML 07A

**Properties and Specifications**

Property	
Grade	SAE 80W-90
Density @ 15 C, g/ml, ASTM D4052	0.901
Flash Point, Cleveland Open Cup, °C, ASTM D92	222
Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s, ASTM D445	14.3
Kinematic Viscosity @ 40 C, mm <sup>2</sup> /s, ASTM D445	131
Pour Point, °C, ASTM D97	-33
Viscosity Index, ASTM D2270	105

**Health and safety**

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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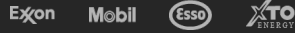
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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit

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