

# Product Data Sheet

Revised: 2019/03/27 (version 3.6)



**PETRONAS**  
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# PETRONAS Tutela Axle 700 EHD 75W-90

**Designed to be the Fluid Technology Solution of choice providing excellent protection and longer oil life for axle, transaxle and final drive systems**

## Description and Applications

PETRONAS Tutela Axle 700 EHD is a premium fully synthetic axle fluid delivering extended drain intervals and total protection even in most severe conditions for today's transmissions, axles, transaxles, differentials and final drives over their entire service life. Its wide coverage of major manufacturer specifications, thanks to extensive bench testing and field-testing, makes it suitable for use in virtually all heavy-duty transmissions. It is a Total Driveline Lubricant (TDL), recommended for both gearboxes and axles requiring SAE J2360 or API GL-4 / GL-5 / MT-1.

PETRONAS Tutela Axle 700 EHD meets the stringent requirement of most OEMs transmissions, approved by Daimler, MAN, Meritor, Scania, Volvo and ZF; for this reason, it reduces the risk of using the wrong oil and simplifies inventory management.

## Benefits

PETRONAS Tutela Axle 700 EHD enhances your Business Profits and your vehicle availability while significantly reducing your operating costs through:

- **Fuel Economy** performance by **optimized transmission efficiency**:
  - o A wider operating temperature to help reduce operational energy losses.
- **Extended Drain Interval and Transmission Life** driven by:
  - o Exceptional thermal and oxidation stability under high temperature, providing viscosity stability and preventing formation of deposits and sludge to prolong oil life even under severe conditions
  - o Enhanced shear stability for a constant film strength and effective lubrication during the oil service life to protect all moving parts
  - o Excellent anti-wear, Extreme Pressure (EP), anti-pitting resistance, gear and bearing protection under severe conditions to extend components life
  - o Extended transmission fluid life and prevention against fluid breakdown at higher operating temperatures for a total protection of the transmission
- Reduced inventory

Provides outstanding Driving Experience through:

- **Exceptional low temperature viscosity** for improved lubrication during start-up and shifting comfort in cold conditions

## Approvals, Specifications and Recommendations

PETRONAS Tutela Axle 700 EHD is a fully synthetic, wide-range lubricant that meets and exceeds below performances:

### Approvals and Specifications:

- SAE J2360
- MAN 341 Type Z2 and MAN 342 Type S1
- MB-Approval 235.8
- Meritor O76N
- SCANIA STO 1:0 and SCANIA 2:0A FS
- Volvo 97312
- ZF TE-ML 02B, 05A, 07A, 12L, 12N, 16B, 16F, 17B, 19C, 21A
- API GL-4/GL-5/MT-1
- MIL PRF-2105E

**Meets or Exceeds the performance requirements of:**

- DAF
- DETROIT DIESEL DFS93K219.01
- Mack GO-J
- Renault Note technique B0032/2 Annex 3

Note: Always consult your owner's manual to check recommended viscosity grade and specifications for your specific vehicle

**Typical Physical Data**

Parameters	Method	Unit	Typical Value
Appearance	-	-	Bright & Clear
Density @15°C	ASTM D 4052	g/cm <sup>3</sup>	0.870
Kinematic Viscosity @100°C	ASTM D 445	mm <sup>2</sup> /s (cSt)	15.5
Kinematic Viscosity @40°C	ASTM D 445	mm <sup>2</sup> /s (cSt)	104
Viscosity Index	ASTM D 2270	-	157
Brookfield Viscosity @-40°C	ASTM D 2983	mPa.s (cP)	55000
Pour Point	ASTM D 97	°C	-51
Flash Point COC	ASTM D 92	°C	238

All technical data is provided for reference only. These characteristics are typical of current production. Whilst future production will conform to PLI's specification, variations in these characteristics may occur.

**Health, Safety and Environment**

This product is unlikely to present any significant health and safety hazards when used in the recommended application. Avoid contact with skin. Wash immediately with soap and water after skin contact. Do not discharge into drains, soil or water.

For further detail regarding storage, safe handling, and disposal of product, please refer to product SDS or contact us at: [www.pli-petronas.com](http://www.pli-petronas.com)

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Code: 1694