

PUMA UniSynth Trans 50

A High Performance Fully Synthetic Manual Transmission Oil

PUMA UniSynth Trans 50 is a specially formulated synthetic lubricant designed for extended drain and severe service in heavy duty manual transmissions which require a non EP gear or transmission lubricant. It is specially designed to protect the higher torque manual transmissions coupled with the increased horsepower engines. It is recommended for On-highway commercial light and heavy duty trucking, bus, and vans and also for Off-highway industries including Construction, Mining and agriculture.

- ✓ Synth Base Oil
- ✓ High Viscosity index
- ✓ Anti-Wear Additives
- ✓ Extended Drain interval

Designed to Perform

Anti-wear Protection – Longer Equipment Life

Proven anti-wear additive packages provide greater resistance to sliding wear thus ensuring efficiency and long life of all moving parts of which greatly reduce the need for servicing and overhauls. It is formulated with a special additive package that addresses anti-wear properties which protect gear teeth from pitting and also protects bearings.

Multi-grade Performance

Formulated from a synthetic basestock with a high viscosity index and low pour point, PUMA UniSynth Trans 50 oil provides superior all-climate, year-round performance

Oxidation Resistance - Longer Oil Life

It has extremely good oil life and lubricant stability even when subjected to unusually high thermal stresses; this property minimises sludge and deposit formation, thus guaranteeing that the oil remains properly fluid. Maintenance costs are therefore reduced and the useful service life of the oil is extended.

Performance Data

The High viscosity index, low pour point and sub-zero fluid flow provide easier cold weather shifting, less drag and less gear wear because vital transmission parts are lubricated quickly. Since it is highly stable when exposed to severe heat, oxidation and shear conditions, it provides exceptional high temperature lubrication for extended drain intervals. The superior all-season lubricating properties mean less economy. These benefits translate directly into reduced maintenance and replacement parts cost and less downtime.

Applications

PUMA UniSynth Trans50 is recommended for the lubrication of heavy duty on- and off-highway manual transmissions which require a non EP gear or transmission lubricant. It is specially formulated to protect the higher torque manual transmissions coupled with the increased horsepower engines. PUMA UniSynth Trans 50 meets or exceeds the requirement of Eaton PS-164 rev 7, Mack against TO-A Plus and API Service MT-1 EP.

PUMA UniSynth Trans 50 is recommended for use in :

- On-highway, commercial light and heavy duty trucking, bus, and vans.
- Off-highway industries including Construction, Mining and agriculture

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Meets or Exceeds the requirements of the following specifications:

- API MT-1
- Eaton PS-164 rev 7 (Superseded by PS-386)
- Mack Truck TO-A PLUS •
- Navistar MPAPS B-6816 Type I
- TE-ML ZF Freedomline
- Volvo 97305

Typical Physical Characteristics

| Property | Temp | Units | Test Methods | Results |
|------------------------|----------|-------|--------------|---------|
| SAE Grade | | | SAE J-300 | 50 |
| SAE Grade | | | SAE J-306 | 75W-90 |
| Kinematic Viscosity | @ 100°C | cSt | ASTM D-445 | 17.5 |
| Kinematic Viscosity | @ 40°C | cSt | ASTM D-445 | 132 |
| Viscosity | @ - 40°C | cP | ASTM D-2983 | 104000 |
| Viscosity Index | - | - | ASTM D-2270 | 146 |
| Flash Point (COC) | - | °C | ASTM D-92 | 221 |
| Pour Point | - | °C | ASTM D-97 | -45 |
| Foam Test Sequence I | | | ASTM D-892 | Pass |
| Foam Test Sequence II | | | ASTM D-892 | Pass |
| Foam Test Sequence III | | | ASTM D-892 | Pass |
| Density | @ 15.6°C | g/ml | | 0.860 |
| Copper strip corrosion | | | | |
| 3 hrs. at 100 °C | | | ASTM D-130 | 1a pass |
| 3 hrs. at 121 °C | | | ASTM D-130 | 1a pass |

These characteristics are typical of current product methods whilst future production will conform to Puma Lubricants specifications, variations in these physical characteristics may occur.

Protect the Environment

- Take used oil to an authorised collection point. Do not discharge used or new oil into drains, soil or water.

Additional Information

- Technical advice may be obtained from your Puma Energy Representative.

Health & Safety Environment

- This product is unlikely to present any significant health and safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.
- Avoid contact with eyes and skin, use proper impervious gloves with used oil. After skin contact, wash immediately with soap and water. Guidance on health and safety is available on the appropriate Safety Data Sheet (SDS) which can be obtained from sds.pumaenergy.com.au