

## PUMA UniSynth Gear Oil 80W-140

### A High Performance Synthetic Gear Oil

PUMA UniSynth Gear Oil 80W-140 is a Next Generation, fully Synthetic EP (Extreme Pressure) gear oil designed for highly loaded gears and axles. It is formulated using a synthetic base stock, which has a high viscosity index and an exceptionally low pour point. These lubricants contain extreme pressure additives, as well as rust, oxidation and corrosion inhibitors to protect gears and bearings operated under a wide variety of load conditions. The high and low temperature performance of this product exceeds those of conventional SAE 80W-90, SAE 90, and 85W-140 hypoid gear lubricant.

- ✓ Synthetic Base Oil
- ✓ Wear Protection
- ✓ Extended Drain interval
- ✓ Extreme Pressure Additives

### Designed to Perform

#### Wear Protection – Longer Equipment Life

Proven wear protection 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.

#### Multi-grade Performance

Formulated from Synthetic basestock with a high viscosity index and low pour point, Puma UniSynth Gear Oil 80W-140 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.

#### Increased Gear Life

This Extreme Pressure (EP) lubricant provides longer gear life by providing high film strength and superior high- and low temperature performance. The anti-rust and anti-corrosion properties further promote extended gear and bearing life. PUMA UniSynth Gear Oil 80W-140 exhibits excellent demulsibility and shear stability. As a result of the superior lubricating properties of PUMA UniSynth 80W-140 even improved fuel mileage can be realized.

All the advantages of PUMA UniSynth 80W-140 translate directly into reduced maintenance and less downtime

#### Anti-corrosion & Anti-rust Properties

These inhibit the oxidation of internal surfaces of industrial gear systems and therefore prevent operating difficulties and breakdown of the oil caused by metallic oxides that would otherwise form within the machinery.

### Applications

PUMA UniSynth Gear Oil 80W-140 is recommended for applications where wear or heat present major problems. These applications include manual transmissions where EP type lubricants are recommended, heavy and medium duty differentials including limited slip, and transfer cases for heavy equipment, trucks, tractors and industrial gear drives. Automobiles, light duty trucks and farm machinery are other potential uses of these lubricants.

**PUMA UniSynth Gear Oil 80W-140**

Meets/ Exceeds and Specifications:

- API GL-5 / MT-1
- SAE J2360 / MIL-PRF-2105E
- Mack Truck, GO-J
- International, TMS 6816
- Arvin Meritor, O-76-B (petroleum), O-80 (synthetic)
- Dana Corporation, SHAES 429

**Typical Physical Characteristics**

Property	Temp	Units	Test Methods	Results
SAE Grade			SAE J-306	80W-140
Kinematic Viscosity	@ 100°C	cSt	ASTM D-445	30.6
Kinematic Viscosity	@ 40°C	cSt	ASTM D-445	284
Viscosity	@ - 12°C	cP	ASTM D-2983	14,800
Viscosity	@ - 18°C	cP	ASTM D-2983	20,500
Viscosity	@ - 26°C	cP	ASTM D-2983	75,000
Viscosity Index	-	-	ASTM D-2270	152
Flash Point	-	°C	ASTM D-92	>180
Foam Test Sequence I			ASTM D-892	Pass
Foam Test Sequence II			ASTM D-892	Pass
Foam Test Sequence III			ASTM D-892	Pass
Copper Strip Corrosion	3 hrs at 100°C		ASTM D-130	1A Pass
Copper Strip Corrosion	3 hrs at 121°C		ASTM D-130	1A Pass
FZG, Stage, Pass			ASTM D-5182	>12

*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](http://sds.pumaenergy.com.au)