



TRAXON™ 85W-140 GEAR OIL

Introduction

Petro-Canada's TRAXON 85W-140 is a multi-grade gear oil formulated for use in high temperature operating conditions, where a GL-5 SAE 140 oil is called for, to provide excellent long-lasting wear protection to extend equipment life and reduce downtime and maintenance costs.

TRAXON starts with the patented HT purity process to produce a 99.9% pure, crystal clear base oil. By removing the impurities that can hinder the performance of competitive conventional oils, and blending in specialty additives, TRAXON gear oil delivers maximum performance.

Features and Benefits

Excellent wear protection

- **Outstanding shear stability and anti-wear EP additives protects equipment in tough, high-load, high operating temperature conditions for extended equipment life and reduced maintenance costs**
 - Shear stability ensures retention of viscosity which protects equipment components against metal-to-metal contact and wear, especially in high temperatures
 - Provides superior protection against gear tooth spalling where flakes of metal break away from the surface of a gear tooth after repeated stress

Long Life

- **TRAXON's long life translates into helping to reduce maintenance costs and increase uptime**
 - Intervals between changeouts of up to 400,000 km (250,000 miles) for maximized equipment life

- Minimizes sludge, varnish or hard carbon deposits for better protection against wear

Industry & OEM Specifications

TRAXON 85W-140 is an approved SAE J2360 (formerly MIL-PRF-2105E) oil. This means customers around the world can be assured of a measurable and recognized quality of performance for their lubricants.

TRAXON 85W-140 is formulated to meet Dana, ArvinMeritor, ZF, Navistar, and Eaton's stringent GL-5/MIL-PRF-2105E gear oil specifications (see specific OEM requirements for further details). TRAXON 85W-140 is approved for Mack Truck differentials where a Mack GO-J oil or MIL-PRF-2105E oil is specified. TRAXON 85W-140 is listed by ZF as approved for classes 05A, 07A, 16D and 17B.

Applications

Petro-Canada TRAXON is recommended for use in differentials, power take off units and final drives found on trucks, and off-highway vehicles used in construction, farm, forestry and mining operations. Consult owners manual for type and grade needed.

TRAXON exceeds API Gear Lubricant Service GL-5 and meets API MT-1 Gear Lubricant standard for heavy duty manual transmissions. TRAXON is recommended for most oil lubricated universal joints, wheel bearings, planetary gear sets, steering gears and certain industrial gear reducers requiring GL-3, GL-4, or GL-5 oils.

Due to specific lubrication requirements TRAXON must not be used in:

- Automatic Transmissions
- Powershift Transmissions
- Hydrostatic drives and systems that include the lubrication of wet clutches and brakes

What is the HT difference?

Petro-Canada starts with the patented HT purity process to produce water-white, 99.9% pure base oils. The result is a range of lubricants, specialty fluids and greases that deliver maximum performance for our customers.



- Manual Transaxles on front wheel drive vehicles where an automatic transmission fluid or engine oil is specified
- Manual Transmissions (e.g. Spicer) where single grade engine oils are specified

Typical Performance Data

PROPERTY	TEST METHOD	TRAXON 85W-140
Density, kg/L, 15°C (60°F)	ASTM D4052	0.9153
Flash Point, °C (°F)	ASTM D92	214 (417.2)
Kinematic Viscosity, cSt @ 40°C (SUS @ 100°F) cSt @ 100°C (SUS @ 210°F)	ASTM D445	344.4 (1,834.5) 25.6 (125.8)
Brookfield Viscosity, cP @ -12°C (10°F)	ASTM D2983	62,000
*Temperature for 150,000 cP, °C (°F)	ASTM D2983	-17.3 (0)
Viscosity Index	ASTM D2270	97
Pour Point, °C (°F)	ASTM D5950	-15 (5)
Channel Point, °C (°F)	3GP-029.1b	-20 (-4)
Foaming Sequence 1 Sequence 2 Sequence 3	ASTM D892	0/0 5/0 0/0
Phosphorus, % wt	PCM 438	0.094
Sulphur, % wt	PCM 438	2.00

The values quoted above are typical of normal production. They do not constitute a specification.

* The figure of 150,000 cP maximum Brookfield viscosity is issued in MIL-PRF-2105E and SAE J2360 to define low temperature properties. This value was selected as the result of a series of tests in a specific rear axle design which showed that pinion bearing failure can occur at viscosities higher than 150,000 cP. This technique defines the minimum temperature at which each viscosity grade can be safely used.

Health and Safety

Petro-Canada TRAXON has no adverse effect on health provided it is used as directed. To obtain Material Safety Data Sheets (MSDS), contact one of our TechData Info Lines.

TechData Info Lines

If you would like to know more about Petro-Canada TRAXON or any other product in our complete line of quality lubricants, please contact us at:

**Petro-Canada
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