



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 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 at 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**
 - Extends intervals between changeouts up to 400,000 km (250,000 miles)* for maximized oil life
 - Minimizes sludge, varnish or hard carbon deposits for better protection against wear

Industry & OEM Approvals

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

TRAXON 85W-140 meets API Gear Lubricant Service GL-5 and API MT-1 Gear Lubricant standard for heavy duty manual transmissions.

TRAXON 85W-140 is approved by Mack where a GO-J gear oil is specified. It is listed by ZF as TE-ML lubricant class 05A, 12M, 16D and 21A (ZF000778) approved and Scania STO 1:0 approved for axles.

Applications

Petro-Canada TRAXON is recommended for use in many 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 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
- 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
- Not for use in specific manual transmissions where you must use an API GL-4 rated oil only and a GL-5/MT-1 oil is not acceptable

What is the HT difference?

Petro-Canada starts with the 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.



*based on highway, normal operation which must be reduced for severe service, vocational and/or off-road type applications.

Typical Performance Data

PROPERTY	TEST METHOD	TRAXON 85W-140
Density, kg/L, 15°C (60°F)	ASTM D4052	0.9054
Flash Point, COC, °C (°F)	ASTM D92	223 (433)
Kinematic Viscosity, cSt @ 40°C (SUS @ 100°F) cSt @ 100°C (SUS @ 210°F)	ASTM D445	351.1 (1870.4) 26.0 (127.6)
Brookfield Viscosity, cP @ -12°C (10°F)	ASTM D2983	74,000
*Temperature for 150,000 cP, °C (°F)	ASTM D2983	-14.0 (7.0)
Viscosity Index	ASTM D2270	98
Pour Point, °C (°F)	ASTM D5950	-27 (-17)
Channel Point, °C (°F)	3GP-029.1b	-34 (-29)
Foaming Sequence 1 Sequence 2 Sequence 3	ASTM D892	0/0 0/0 0/0
Phosphorus, % wt	ASTM D4951	0.093
Sulphur, % wt	ASTM D4294	2.60

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 are an **existing customer** looking to place an order, please call a Customer Order Management Representative at:

Canada (English) Phone 1-800-268-5850
(French) Phone 1-800-576-1686
United States Phone 1-877-730-2369
Latin America/Europe/Asia Phone +1-866-957-4444

If you would like to **become a Petro-Canada lubricants customer** and require more information about specialty fluids, oils and greases that can help maximize your equipment performance, savings and productivity, please contact us at:

North America Phone 1-866-335-3369
Europe Phone +44 (0) 121-781-7264
Germany Phone 0800-589-4751
China Phone +86 (21) 6362-0066

You can also e-mail us at lubecsr@suncor.com

Visit us on the web at lubricants.petro-canada.com

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