



TRAXON™ E SYNTHETIC 75W-90, 80W-140, MTF

Introduction

Petro-Canada's TRAXON E SYNTHETIC line of lubricants are formulated to meet the "Genuine Roadranger" extended drain and warranty performance requirements set by Eaton Corporation (for transmissions) and Dana CVSD Corporation (for axles).

TRAXON E SYNTHETIC 75W-90 and 80W-140 are heavy duty, extreme pressure, GL-5 gear lubricants recommended for use in:

- Manual transmissions requiring EP-type oils
- Transfer cases for heavy equipment, trucks and tractors

TRAXON E SYNTHETIC MTF is a synthetic transmission lubricant recommended for use in:

- Heavy duty manual transmissions requiring non-EP oil and where API GL-5 performance is not required
- Severe service conditions
- Extended drain applications

Features and Benefits

TRAXON E SYNTHETIC 75W-90 and 80W-140

These products feature a high viscosity index and very low pour point, and contain extreme pressure additives. They are specially formulated to operate under a variety of load conditions and protect gears and bearings against rust, corrosion and oxidation.

- **Fuel Economy**
 - New and improved TRAXON E SYNTHETIC 75W-90 has demonstrated up to 1.5%* fuel efficiency benefits over the previous formulation

- **Long Life**

- Extremely high film strength, shear stability and proven anti-rust and anti-corrosion properties protects equipment longer providing reduced maintenance costs
- Exceptional resistance to oxidation provides long lubricant life extending drain intervals between change-outs for maximized oil life and less downtime

- **All-Season Protection**

- High viscosity indices and good low temperature flow properties provide superior protection over a wide range of temperatures for increased productivity
- Easier manual transmission shifting in sub-zero temperatures

TRAXON E SYNTHETIC MTF

This manual transmission lubricant provides superior year-round performance where a non-EP lubricant is required. It contains an anti-wear additive, as well as rust, oxidation and corrosion inhibitors to protect vital transmission parts in severe heat, oxidation and shear conditions.

- **Fuel Economy**

- New TRAXON E SYNTHETIC MTF has demonstrated up to 1.6%** fuel efficiency benefits over previous TRAXON E SYNTHETIC CD-50 fluid

- **Year Round Protection**

- Provides excellent high temperature performance and much improved pumpability and transmission shifting at colder temperatures for maximized uptime

* Fuel Economy (FE) claims are based on improvements noted in both Industry and fleet testing, including SAE J1321, J1376 & J1526, versus previous formulation.

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- **Long Life**
 - Provides extended drain capabilities for less change-outs and reduced maintenance
 - Helps reduce operating temperatures
 - Excellent thermal and oxidation stability which resists deposits and sludge formation.
- **Shear Stability**
 - Exceptional shear stability for better stay in grade performance contributing to less gear wear

Eaton "Genuine Roadranger" Extended Drain and Warranty Specification

After analyzing in-service performance of components filled with synthetic lubricant, Eaton Corporation established a category that allows a 500,000-mile drain interval when the components are factory-filled with Eaton-approved synthetic lubricants. Petro-Canada's TRAXON E SYNTHETIC 75W-90, TRAXON E SYNTHETIC 80W-140 and TRAXON E SYNTHETIC MTF meet or exceed this specification and are approved for use in Eaton / Dana Equipment.

Please refer to Eaton's website for complete details of equipment requiring "Genuine Roadranger" approved lubricants:

- Website (www.roadranger.com)
- TCMT0020 - Lubrication Guide (Eaton Approved Lubricant Suppliers)
- TCMT0021 - Product Specification Manual (Roadranger Lubricant Products)

Applications

TRAXON E SYNTHETIC 75W-90 and 80W-140

These products are recommended where heat and wear present major problems. These applications include:

- Manual transmissions where EP type lubricants are recommended by the manufacturer
- Transfer cases for heavy equipment trucks, tractors and industrial gear drives
- Light duty trucks and farm machinery

Both products meet or exceed the performance requirements for:

- API Service Classifications GL-5 and MT-1
- Dana CVSD SHAES 256 Rev C and SHAES 429. Approved for Roadranger 750,000 mile extended warranty programs with 500,000 mile drain intervals
- International TMS 6816
- MIL-L-2105D / MIL-PRF-2105E / SAE J2360

In addition, these products meet or exceed:

75W-90

- Meritor O-76-N
- Mack GO-J Plus

80W-140

- Meritor O-76-B, O-80
- Mack GO-J

TRAXON E SYNTHETIC MTF

TRAXON E SYNTHETIC MTF is recommended for extended drain and severe service in heavy duty (class 6, 7, and 8) manual transmissions requiring a non-EP lubricant. TRAXON E SYNTHETIC MTF is backwards serviceable and can top-up existing units filled with the previous formulation of TRAXON E SYNTHETIC CD-50.

This product meets or exceeds the performance requirements for:

- API MT-1
- Eaton PS-386
- Approved for use in Eaton transmissions such as UltraShift Plus, Fuller Advantage Series (FAS), FR and RT Series
- Extended warranty coverage at Eaton Corporation (500,000 miles)
- Mack TO-A PLUS (pending)
- Meritor O-81 (pending)
- International TMS 6816 (pending)

Typical Performance Data

PROPERTY	TEST METHOD	TRAXON E SYNTHETIC		
		75W-90	80W-140	MTF
SAE Viscosity Grade		75W-90	80W-140	—
Density, kg/L @ 15.°C/60°F	ASTM D4052	0.888	0.902	0.850
Flash Point, COC, °C (°F)	ASTM D92	215 (419)	200 (392)	238 (460)
Kinematic Viscosity	ASTM D445			
cSt @ 40°C (SUS @ 100°F)		103 (528)	284 (1476)	95.1 (485)
cSt @ 100°C (SUS @ 210°F)		15.0 (78.9)	30.6 (148.4)	14.8 (78.1)
Brookfield Viscosity	ASTM D2983			
cP @ -18°C		5,850	47,175	—
cP @ -26°C		—	71,200	—
cP @ -40°C		90,000	—	51,900
Viscosity Index	ASTM D2270	152	146	163
Pour Point, °C (°F)	ASTM D5950	-51 (-60)	<-40 (<-40)	-42 (-44)
Foaming characteristics	ASTM D892			
Sequence 1		0/0	0/0	20/0
Sequence 2		5/0	0/0	30/0
Sequence 3		0/0	0/0	10/0
Copper Corrosion	ASTM D130M			
3 hr. @ 121°C/250°F		1a	1b	1b

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

Health and Safety

To obtain Material Safety Data Sheet (MSDS), contact one of Petro-Canada's 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

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



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 +49 (0) 201-726-2913
China Phone +86 (21) 6362-0066

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