

TECH DATA

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 hypoid gears/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 where hypoid gears and axles are used

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 or desired
- Severe service conditions
- Extended drain applications

FEATURES AND BENEFITS

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

These hypoid gear/axle fluids 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 hypoid gears and bearings against rust, corrosion and oxidation.

Fuel Economy

- 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, thus 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 excellent protection over a wide range of temperatures for increased productivity
- Easier manual transmission shifting in sub-zero temperatures for those transmission systems that allow EP oils
- Easier hypoid gear movement under low temperature conditions for better efficiency and less viscous drag versus conventional grades

TRAXON E SYNTHETIC MTF

This manual transmission lubricant provides outstanding 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

- TRAXON E SYNTHETIC MTF has demonstrated up to 1.6%** fuel efficiency benefits versus the older TRAXON E SYNTHETIC CD-50 fluid (discontinued)

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

**Fuel Economy (FE) claims are based on improvements noted in both SAE J1321 and fleet testing, versus TRAXON E SYNTHETIC CD-50.

Year Round Protection

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

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. TRAXON E SYNTHETIC MTF meets or exceeds this specification and is approved for use in Eaton equipment. Eaton/Roadranger also recognizes axle extended drain applicable fluids and publishes a “Recommended Fluid Approval Listing” as part of the below documents which includes TRAXON E Synthetic 75W-90 and TRAXON E Synthetic 80W-140.

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) - TRAXON E SYNTHETIC MTF only

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 axles, hypoid gears and gear drives
- Light and heavy duty trucks and mining, forestry and farm machinery

Both products meet or exceed the performance requirements for:

- API Service Classifications GL-5 and MT-1
- MIL-L-2105D / MIL-PRF-2105E / SAE J2360
- Dana CVSD SHAES 256 Rev E (75W-90 only) and SHAES 429 Rev A.
- DANA CVSD SHAES Approved Lubricant Suppliers Listing - pending approval
- Approved for Roadranger 750,000 mile extended warranty programs with 500,000 mile drain intervals (see Eaton’s TCMT0020 - Lubrication Guide (Recommended Lubricant Suppliers))
- International TMS 6816 (obsolete)
- Navistar MPAPS B-6821

In addition, these products meet or exceed:

75W-90

- Meritor O-95 (previously O76-N) (TP-9539 extended drain listing) - approved
- Mack GO-J Plus (approval pending)
- Detroit Diesel DF93K219.01


80W-140

- Meritor O-95 (previously O76-Q and O76-R) (TP-9539 extended drain listing) - approved
- Mack GO-J (approval pending)

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 to Eaton PS-164 Rev 7 (obsolete).

This product meets or exceeds the performance requirements for:

- API MT-1
 - Eaton PS-386 (approved)
 - Approved for use in Eaton transmissions such as UltraShift and UltraShift Plus, Fuller Advantage Series (FAS), FR and RT Series
 - Extended warranty coverage at Eaton Corporation (500,000 miles)
 - Mack TO-A Plus (approved)
 - International TMS 6816 (obsolete)
 - Navistar MPAPS B-6816 Type II
 - Meritor O-81 (approved)
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TYPICAL PERFORMANCE DATA

Property	Test Method	TRAXON E SYNTHETIC		
		75W-90	80W-140	MTF
SAE Viscosity Grade		75W-90	80W-140	40 (75W-90)
Density, kg/L @ 15°C/60°F	ASTM D4052	0.884	0.892	0.850
Flash Point, COC, °C (°F)	ASTM D92	207 (405)	209 (408)	238 (460)
Kinematic Viscosity cSt @ 40°C (SUS @ 100°F) cSt @ 100°C (SUS @ 210°F)	ASTM D445	101 (516) 14.9 (79.2)	230 (1189) 27.4 (134.2)	95.1 (485) 14.8 (78.6)
Brookfield Viscosity cP @ -18°C cP @ -26°C cP @ -30°C cP @ -40°C	ASTM D2983	— — 72,500	43,000 — —	— — 51,900
Viscosity Index	ASTM D2270	155	154	163
Pour Point, °C (°F)	ASTM D5950	-51 (-60)	-36 (-33)	-42 (-44)
Foaming characteristics Sequence 1 Sequence 2 Sequence 3	ASTM D892	0/0 15/0 0/0	0/0 15/0 0/0	20/0 30/0 10/0
Copper Corrosion 3 hr. @ 121°C/250°F	ASTM D130M	1a	1a	1b

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

Learn more about us: lubricants.petro-canada.com
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Committed to the disciplined operation of our business.



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