



A HOLLYFRONTIER BUSINESS

# TECH DATA

## TRAXON™ E SYNTHETIC

### 75W-90, 80W-140, CD-50, 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 CD-50 and MTF are synthetic transmission lubricants 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

\* 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

### **TRAXON E SYNTHETIC CD-50**

This SAE 50 transmission lubricant provides excellent 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.

### **Year Round Protection**

- Provides excellent high temperature performance and easier cold weather shifting for maximized uptime

### **Less Transmission Friction and Drag**

- Helps increase fuel economy

### **Long Life**

- Provides extended drain capabilities for less change-outs and reduced maintenance

## **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 meet or exceed this specification and are 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](http://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-76-N (TP-9539 extended drain listing) - approval pending
- Mack GO-J Plus (approval pending)
- Detroit Diesel DF93K219.01

#### **80W-140**

- Meritor O-76-B, O-80 (TP-9539 extended drain listing) - approval pending
- 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) and can top-up existing units filled with TRAXON E SYNTHETIC CD-50.

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)

#### **TRAXON E SYNTHETIC CD-50**

TRAXON E SYNTHETIC CD-50 is recommended for extended drain and severe service in heavy duty (class 6, 7, and 8) manual transmissions requiring a non-EP lubricant. This product meets or exceeds the performance requirements for:

- AP1 MT-1
- Eaton PS-164 Rev 7 (obsolete) (superseded by PS-386)
- Extended warranty coverage at Eaton Corporation (500,000 miles)
- Mack TO-A Plus (approved)
- International TMS 6816 (obsolete)
- Navistar MPAPS B-6816 Type I
- ZF Freedom Line (ZF-AS Tronic)
- Volvo STD 1273,05 (97305)
- Meritor O-81

## TYPICAL PERFORMANCE DATA

Property	Test Method	TRAXON E SYNTHETIC			
		75W-90	80W-140	MTF	CD-50
SAE Viscosity Grade		75W-90	80W-140	40 (75W-90)	50 (75W-90)
Density, kg/L @ 15°C/60°F	ASTM D4052	0.884	0.892	0.850	0.860
Flash Point, COC, °C (°F)	ASTM D92	207 (405)	209 (408)	238 (460)	218 (424)
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)	132.0 (679) 17.5 (90.0)
Brookfield Viscosity cP @ -18°C cP @ -26°C cP @ -30°C cP @ -40°C	ASTM D2983	— — 72,500	43,000 — —	— — 51,900	— 24,550 104,000
Viscosity Index	ASTM D2270	155	154	163	146
Pour Point, °C (°F)	ASTM D5950	-51 (-60)	-51 (-60)	-42 (-44)	-46 (-51)
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	10/0 25/0 10/0
Copper Corrosion 3 hr. @ 121°C/250°F	ASTM D130M	1a	1a	1b	1a

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

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Committed to the disciplined operation of our business.



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