



TRAXON™ E SYNTHETIC 75W-90, 80W-140, CD-50

Introduction

Synthetic Lubricants Approved for Eaton Extended Warranty Coverage

Petro-Canada's TRAXON E line of synthetic lubricants are formulated to meet the extended warranty performance requirements of Eaton Corporation's Axle and Transmission Divisions.

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

- Manual transmissions requiring EP-type oils
- Differentials including limited slip (top up only)
- Transfer cases for heavy equipment, trucks and tractors

TRAXON E CD-50 is an SAE 50 synthetic transmission lubricant recommended for use in:

- Heavy duty manual transmissions requiring non-EP oil
- 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.

- **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, good low temperature flow properties and extremely low channel points provide superior protection over a wide range of temperatures for increased productivity
 - Easier manual transmission shifting in sub-zero temperatures
- **Better Operating Performance**
 - Possible improved fuel mileage capability provides reduced costs

TRAXON E Synthetic CD-50

This SAE 50 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.

- **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 lubricant life provides extended drain capabilities for less change-outs and reduced maintenance**

Eaton Extended Warranty Specification

After analyzing in-service performance of components filled with synthetic lubricant, Eaton Corporation has established a category that allows a 500,000-mile change 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 CD-50 meet or exceed this specification and are approved for use in Eaton Equipment.

It applies to Eaton Fuller transmissions and Eaton drive axles installed on new trucks built March 1, 1996, and later. The following Eaton drive axles and Eaton Fuller transmissions qualify when used in normal on-highway operation:

Transmissions

7 speed A & B ratio's
9 speed A,B,R & H ratios
10 speed B & C ratio's
All Super 10 models
All 13 Speeds
Lip
All 15 Speeds
All Super - 18 models

Drive Axles

DS 404 & DS 404P
DA 404 & DA 404P
DD 404 & DA 404P
All equivalent 405 models

(Axles listed above equipped with Micro-XL input / output seals, new "U-Tube" breather & outrunner wheel seals)

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
- Differentials including limited slip
- 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 Corporation, Axle Division, SHAES-256, SHAES-234
- Navistar / International TMS 6816
- MIL-L-2105D / MIL-PRF-2105E
- Mack Truck GO-J Plus
- Mack Truck GO-J

In addition, these products meet or exceed:

75W-90

- Eaton Axle Division PS-037, PS-163, PS-109, Extended warranty coverage at Eaton (750,000 miles)
- Meritor Automotive, Inc (formerly Rockwell International) O-76-E (petroleum), O-76-N (synthetic)

80W-140

- Eaton Axle Division PS-037, PS-163-Extended warranty coverage at Eaton(750,000 miles)
- Meritor Automotive, Inc. (formerly Rockwell International) O-76-B (petroleum),O-80 (synthetic)

TRAXON E Synthetic CD-50

Traxon E 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:

- Eaton Transmission Division PS 164 (Rev 7)
- Extended warranty coverage at Eaton Corporation (500,000 miles)
- Mack Truck TO-A-PLUS
- ArvinMerito O-81
- AP1 MT-1
- International TMS 6816
- ZF TE-ML 02L

Typical Performance Data

PROPERTY	TEST METHOD	TRAXON E Synthetic		
		75W-90	80W-140	CD-50
Density, kg/L @ 15.6°C/60°F	ASTM D4052	0.891	0.902	0.860
Flash Point, °C (°F)	ASTM D92	201 (393.8)	221 (429.8)	221 (429.8)
Kinematic Viscosity	ASTM D445			
cSt @ 40°C (SUV @ 100°F)		120.9 (620.6)	289.9 (1,506.6)	132 (679.3)
cSt @ 100°C (SUV @ 210°F)		16.8 (86.4)	31.2 (151.1)	17.5 (89.4)
Brookfield Viscosity	ASTM D2983			
cp @ -10°C		—	—	—
cp @ -18°C		7,125	47,175	—
cp @ -20°C		—	—	—
cp @ -26°C		—	71,200	—
cp @ -30°C		—	—	—
cp @ -40°C		143,000	—	104,000
Viscosity Index	ASTM D2270	150	147	146
Pour Point, °C (°F)	ASTM D5950	<-48 (-54.4)	<-42 (<-43.6)	<-45 (-49)
Channel Point, °C (°F)	FTMS 3456	<-45 (<-48)	—	—
Foaming characteristics	ASTM D892			
Sequence 1		0/0	0/0	0/0
Sequence 2		0/0	0/0	0/0
Sequence 3		0/0	0/0	0/0
Copper Corrosion 3 hr. @ 121°C/250°F	ASTM D130M	1b	1b	1a

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

To place an order, please call a Customer Order Management Representative at :

Canada (English) Phone 1-800-268-5850
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