



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

Introduction

Petro-Canada's TRAXON E line of synthetic lubricants are formulated to meet the "Genuine Roadranger" extended drain and warranty performance requirements of Eaton / Dana 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 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
- **Fuel Economy**
 - New and improved TRAXON E Synthetic 75W-90 has demonstrated up to 1.5%* fuel efficiency benefits over the previous formulation

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

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

Eaton "Genuine Roadranger" Extended Drain and 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 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 CD-50 meet or exceed this specification and are approved for use in Eaton / Dana Equipment.

It applies to Eaton Fuller transmissions and Eaton / Dana drive axles installed on new trucks built March 1, 1996 and later. The following Eaton / Dana 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 & DD 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
- Eaton / Dana Corporation, Axle Division, 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

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

80W-140

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

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 TO-A-PLUS
- ArvinMeritor O-81
- AP1 MT-1
- International TMS 6816
- Volvo Transmission Oil 97305
- ZF TE-ML 02L

Typical Performance Data

PROPERTY	TEST METHOD	TRAXON E Synthetic		
		75W-90	80W-140	CD-50
SAE Viscosity Grade		75W-90	80W-140	50
Density, kg/L @ 15.°C/60°F	ASTM D4052	0.888	0.902	0.860
Flash Point, COC, °C (°F)	ASTM D92	215 (419)	200 (392)	221 (430)
Kinematic Viscosity	ASTM D445			
cSt @ 40°C (SUS @ 100°F)		103 (528)	284 (1476)	132 (679)
cSt @ 100°C (SUS @ 210°F)		15.0 (78.9)	30.6 (148.4)	17.5 (89.4)
Brookfield Viscosity	ASTM D2983			
cP @ -18°C		5,850	47,175	—
cP @ -26°C		—	71,200	—
cP @ -30°C		—	—	24,550
cP @ -40°C		90,000	—	104,000
Viscosity Index	ASTM D2270	152	146	146
Pour Point, °C (°F)	ASTM D5950	-51 (-60)	<-40 (<-40)	<-45 (<-49)
Foaming characteristics	ASTM D892			
Sequence 1		0/0	0/0	10/0
Sequence 2		5/0	0/0	25/0
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

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

Canada (English) Phone 1-800-268-5850
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To learn more about how Petro-Canada lubricants, specialty fluids, oils and greases can help maximize your equipment performance, savings and productivity, please contact us at :

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