

# Delo<sup>®</sup> Syn-AMT XV

## Premium performance fully synthetic transmission fluid

### Product description

Delo Syn-AMT XV is a range of premium performance fully synthetic transmission fluids, designed for extended drain service in heavy duty synchronised manual truck transmissions. The SAE 75W 80 viscosity grade is approved for use in Voith Retarders.

Delo Syn-AMT XV lubricants are formulated with fully synthetic base oils in combination with a premium performance additive system, available in viscosity grades SAE 75W-80 and SAE 75W-90.

### Customer benefits

- Long-drain capability of 450,000 km or more, reducing the need for transmission overhauls and maintenance downtime
- Designed for low-temperature fluidity, allowing fast circulation and wear protection during cold start-up
- High Viscosity Index and good shear stability help provide viscosity and film thickness sufficient for effective high temperature lubrication throughout fluid service life
- Specially tuned, durable friction characteristics, offer smooth shifting across fluid lifetime
- Proven fuel economy compared to conventional fluids (up to 3% improvement, when used in combination with Delo Syn-Gear HD SAE 75W-90 in the drive axles)
- Durable extreme pressure (EP) protection, designed to resist component scuffing and wear



### Product highlights

- **Designed for 450,000 km long-drain capability**
- **Promotes cold start protection**
- **Formulated for smooth shifting**
- **Designed for consistent high temperature protection**
- **Offers improved fuel economy**
- **Aids rust, corrosion and wear resistance**

#### Selected specification standards include:

API	DAF
Daimler	Eaton
MAN	Voith
Volvo	ZF

## Applications

Delo Syn-AMT XV is designed for extended drain in heavy duty synchronised manual truck transmissions. In addition to its formal OEM approvals, field trial data demonstrates its potential capability for extended drain in a range of other truck applications. Field trial vehicles include those manufactured by MAN, Mercedes-Benz, and Volvo; transmissions include those manufactured by the truck constructors themselves and by ZF, including AS Tronic models and models fitted with intarders. Delo Syn-AMT XV SAE 75W-80 has a Voith Retarder Oil Class C approval – oil service interval is up to 180,000 km (trucks) or 200,000 km (busses), depending on service severity.

Note that ZF mandates the use of a product with a formal TE-ML 01E/02E approval during the warranty period of transmissions with “TE-ML 01” or “TE-ML 02” entries on the type plate. Delo Syn-AMT XV SAE 75W-80 may be used in these applications after the end of the warranty period.

The SAE 75W-90 viscosity grade is intended principally for conditions of high ambient temperature and/or high operating load, or where the application calls specifically for an SAE 75W-90 viscosity grade product.

## Approvals, performance and suitable for use

<b>Approvals</b>		<b>75W-80</b>	<b>75W-90</b>
• Voith	Retarder Oil Class C	X	
• Volvo	97307	X <sup>[1]</sup>	—
• Volvo	97318	X <sup>[2]</sup>	—
• Volvo	97315	—	X <sup>[3]</sup>
• Volvo	97319	—	X <sup>[4]</sup>
<b>Performance</b>		<b>75W-80</b>	<b>75W-90</b>
• API	GL-4	X <sup>[5]</sup>	X <sup>[5]</sup>
• DAF	Gearbox oil for Eaton gearboxes	X	—
• Eaton	Synthetic (500,000 km/3 years)	X	—
<b>Suitable for use</b>		<b>75W-80</b>	<b>75W-90</b>
• Daimler	MB 235.4	X	—
• Daimler	MB 235.41	X	—
• Daimler	MB 235.11	X <sup>[6]</sup>	X
• MAN	341 Type E4	X <sup>[7]</sup>	—
• MAN	341 Type Z4	X	—
• ZF	TE-ML 02L	X <sup>[8]</sup>	—

<sup>[1]</sup> Volvo approval number: 97307-039.

<sup>[2]</sup> Volvo approval number: 014.

<sup>[3]</sup> Volvo approval number: 97315-016.

<sup>[4]</sup> Volvo approval number: 97319-005.

<sup>[5]</sup> Although this product is suitable for use in applications where a GL-4 fluid is specified, it should be noted that the GL-4 specification does not fully address the requirements of synchronized manual transmissions. This fluid is optimized around the needs of commercial vehicle transmissions, and may not give satisfactory performance in applications such as passenger car transmissions.

<sup>[6]</sup> In transmissions. The SAE 75W-80 viscosity grade has not been validated in transfer cases.

<sup>[7]</sup> The product meets all of the requirements, but MAN made this specification obsolete at the end of 2016.

<sup>[8]</sup> Field trial testing demonstrates suitability for use for up to 400,000 km/3 years

Typical test data			
Test	Test Methods	Results	
Viscosity Grade		75W-80	75W-90
<b>Shelf Life: 60 months from date of filling indicated on the product label</b>			
Density, 15°C, kg/L	ASTM D1298	0.8645	0.859
Flash Point COC, °C	ASTM D92	244	252
Pour Point, °C	ASTM D5950	-54	-48
Viscosity, Kinematic, 100°C, mm <sup>2</sup> /s	ASTM D445	9.17	17.03
Viscosity, Kinematic, 40°C, mm <sup>2</sup> /s	ASTM D445	54.1	119.6
Viscosity, Brookfield, -26°C, mPa.s	ASTM D2983	3670	—
Viscosity, Brookfield, -40°C, mPa.s	ASTM D2983	19,300	95,000
Viscosity Index	ASTM D2270	151	156

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).

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Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

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