



Delo® Syn-AMT XV

Premium performance fully synthetic transmission fluid

Product Data Sheet

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
- Offers cold start protection
- Formulated for smooth shifting
- Designed for consistent high temperature protection
- Offers improved fuel economy
- Aids rust, corrosion and wear resistance



Applications

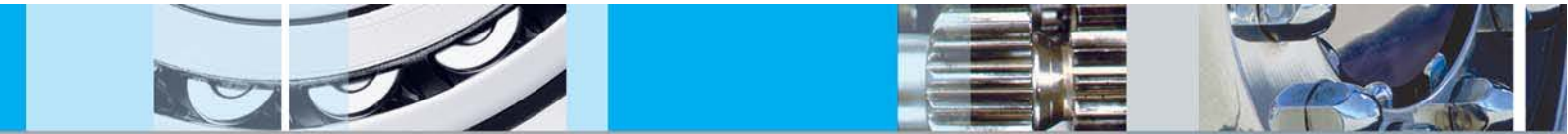
Delo Syn-AMT XV is designed for extended drain in heavy duty synchronised manual truck transmissions. In addition to its formal OEM approvals, field trial data demonstrates its potential capability for extended drain in a range of other truck applications. Field trial vehicles include those manufactured by MAN, Mercedes-Benz, Scania 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 recommendations

Approvals	75W-80	75W-90
• Eaton Synthetic (500,000 km/3 years)	X	—
• Voith Retarder Oil Class C	X	—
• Volvo 97305	X	—
• Volvo 97307	X ^[1]	—
• Volvo 97318	X ^[2]	—
• Volvo 97315	—	X ^[3]
• Volvo 97319	—	X ^[4]
Performance	75W-80	75W-90
• API GL-4	X ^[5]	X ^[5]
• DAF Gearbox oil for Eaton gearboxes	X	—



Recommendations	75W-80	75W-90
• Daimler MB 235.4	X	—
• Daimler MB 235.41	X	—
• Daimler MB 235.11	X ^[6]	X
• MAN 341 Type E4	X ^[7]	—
• MAN 341 Type Z4	X	—
• ZF TE-ML 02L	X ^[8]	—

^[1] Volvo approval number: 97307-039.

^[2] Volvo approval number: 014.

^[3] Volvo approval number: 97315-016.

^[4] Volvo approval number: 97319-005.

^[5] 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.

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

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

^[8] Field trial testing demonstrates suitability for use for up to 400,000 km/3 years.

Typical key properties

Delo Syn-AMT XV			
Test	Test Methods	Results	
Viscosity Grade		75W-80	75W-90
Product Code		804127	510269
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 ² /s	ASTM D445	9.17	17.03
Viscosity, Kinematic, 40°C, mm ² /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

1905

ENVIRONMENT, HEALTH and SAFETY

Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal.

To obtain a MSDS for this product, visit:
www.CaltexDelo.com.

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.

Produced by:
Chevron Lubricants
 – Asia Pacific