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**VOITH**

# Lubricants for DIWA automatic transmissions



## The Voith lubricant range is formulated using state of the art technology thus ensuring high performance of your automatic transmission.

Depending on the oil fluid type in use, oil changes are required at intervals ranging from 60,000 through to 180,000 kilometers. A durable and correct friction coefficient prevents the vibration phenomena and allows correct gear shifting.

Excellent performance is guaranteed through the use of this lubricant range.

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### Overview

Oil brand name	Fluid type	Oil changing intervals up to	Index
<b>V Liquid</b>	Multi-functional red coloured ATF*	60,000 km	
<b>V Liquid S</b>	Red colored synthetic ATF* formulated with an updated additive package for very high performance	60,000 km	1)
<b>V Liquid BLU S</b>	Blue coloured synthetic lubricant, formulated using state of the art technology to ensure high performance	120,000 km	1)
<b>V Liquid Green Plus</b>	Multi-functional ATF*, fully synthetic, green coloured lubricant formulated with innovative additive package and PAO (Poly-Alpha-Olefin) base oil	180,000 km	1)

\*ATF: Automatic Transmission Fluid

The oils marked with Index <sup>1)</sup> have been released in addition for the initial filling of DIWA transmissions by the vehicle manufacturer (OEM). Moreover, with these oils it is ensured that DIWA transmissions which are certified according to Regulation (EU) 2017/2400, comply with the certificate after the initial filling by the vehicle manufacturer (OEM). According to Regulation 2017/2400 of the European Union, the CO<sub>2</sub> emissions and the fuel consumption are determined for the type approvals of heavy commercial vehicles. Besides, only the oils marked with Index <sup>1)</sup> have been released for DIWA transmissions with angle drive.

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Lubricants for DIWA automatic transmissions



# V Liquid

V Liquid is formulated with highly refined mineral oils and an updated additive package

## Chemical and physical characteristics:

- Colour: Red
- Kinematic viscosity @ 100°C: 7.4 cSt
- Viscosity index: 170
- Flash point (C.O.C): 200° C

## Main properties:

- Good thermal-oxidative resistance
- Excellent anti-rust protection avoiding corrosion
- Excellent anti-foam characteristics
- Good stability even under mechanical stress
- Superior EP (Extreme Pressure) and AW (Anti Wear) performance

## Maintenance

Oil and filter change intervals on the DIWA transmission

- Profile 1: 45,000 km
- Profile 2: 60,000 km

## Bus application profiles

### Profile 1:

- Average speed < 15 km/h (SORT 1) and service in mountainous or flat areas
- Average speed  $\geq$  15 km/h (SORT 2, SORT 3) and service in mountainous areas

### Profile 2:

- Average speed  $\geq$  15 km/h (SORT 2, SORT 3) and service in flat areas

## Approvals & specifications

- VOITH H55.6335xx

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### Package & code

Packaging	Quantity	Order number
Tank	1,000 lt	301 510 105
Drum	209 lt	301 510 104
Bucket	25 lt	301 510 103
Can	5 lt	301 510 102

# V Liquid S

V Liquid S is a fully synthetic product with very good performance at low ambient temperatures and high service temperatures. The updated additive technology used guarantees superior oxidation resistance and low sludge formation.

## Chemical and physical characteristics:

- |                                |         |
|--------------------------------|---------|
| • Colour:                      | Red     |
| • Kinematic viscosity @ 100°C: | 7.1 cSt |
| • Viscosity index:             | 181     |
| • Flash point (C.O.C):         | 228° C  |

## Main properties:

- Very high thermal-oxidative resistance;
- Excellent anti-rust protection avoiding corrosion
- Excellent anti-foam and air release characteristics
- High shear stability even under mechanical stress
- Superior EP (Extreme Pressure) and AW (Anti Wear) performance
- Good gasket compatibility
- Reduction of sludge and deposits
- High scuffing resistance
- Excellent fluency at low ambient temperatures
- Approved for First-Fill, EU CO<sub>2</sub>-Emission regulations and angle drives acc.1)

## Maintenance

Oil and filter change intervals on the DIWA transmission

- Profile 1: 45,000 km
- Profile 2: 60,000 km

## Bus application profiles

### Profile 1:

- Average speed < 15 km/h (SORT 1)  
and service in mountainous or flat areas
- Average speed  $\geq$  15 km/h (SORT 2, SORT 3)  
and service in mountainous areas

### Profile 2:

- Average speed  $\geq$  15 km/h (SORT 2, SORT 3)  
and service in flat areas

## Approvals & specifications

- VOITH H55.6335xx <sup>1)</sup>

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## Package & code

Packaging	Quantity	Order number
Tank	1,000 lt	301 510 109
Drum	209 lt	301 510 108
Bucket	25 lt	301 510 107
Can	5 lt	301 510 106

# V Liquid Blu S

V Liquid BLU S is a product with superior characteristics in any ambient and service conditions. The synthetic base and the selected additive package used guarantee very high performance and benefits.

## Chemical and physical characteristics:

- Colour: Blue
- Kinematic viscosity @ 100°C: 7.2 cSt
- Viscosity index: 176
- Flash point (C.O.C): 229° C

## Main properties:

- Superior thermal-oxidative resistance
- Excellent anti-rust protection avoiding corrosion
- Superior anti-foam and air release characteristics
- Very high shear stability even under mechanical stress
- Very high EP (Extreme Pressure) and AW (Anti Wear) performance
- Exceptional gasket compatibility
- Reduction of sludge and deposits
- High scuffing resistance
- Durable and correct friction coefficient over long time period
- Excellent fluency at low ambient temperatures
- Approved for First-Fill, EU CO<sub>2</sub>-Emission regulations and angle drives acc.1)



## Maintenance

Oil and filter change intervals on the DIWA transmission

- Profile 1: 90,000 km
- Profile 2: 120,000 km

## Bus application profiles

### Profile 1:

- Average speed < 15 km/h (SORT 1) and service in mountainous or flat areas
- Average speed  $\geq$  15 km/h (SORT 2, SORT 3) and service in mountainous areas

### Profile 2:

- Average speed  $\geq$  15 km/h (SORT 2, SORT 3) and service in flat areas

## Approvals & specifications

- VOITH H55.6336xx<sup>1)</sup>

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## Package & code

Packaging	Quantity	Order number
Tank	1,000 lt	301 510 113
Drum	209 lt	301 510 112
Bucket	25 lt	301 510 111
Can	5 lt	301 510 110

# V Liquid Green Plus

V Liquid Green Plus is formulated with innovative additive package and PAO (Poly-Alpha-Olefin) base oil. The product is the result of intensive studies and field tests to guarantee excellent performance in any conditions and for very long drain intervals

## Chemical and physical characteristics:

- Colour: Green
- Kinematic viscosity @ 100° C: 7.2 cSt
- Viscosity index: 148
- Flash point (C.O.C): 234° C
- Kinematic viscosity @ 100° C after KRL shear stability test (stage C) 7.0 cSt

## Main properties:

- Exceptional thermal-oxidative resistance
- Excellent anti-rust protection avoiding corrosion
- Excellent anti-foam and air release characteristics
- Absolutely shear stable even under severe mechanical stress
- Exceptional EP (Extreme Pressure) and AW (Anti Wear) performance
- Exceptional gasket compatibility
- Reduction of sludge and deposits thanks to high detergent and dispersant properties
- Very high scuffing resistance
- Durable and correct friction coefficient over long time period and under severe working conditions
- Excellent performance at low ambient temperatures and at very high service temperatures
- Approved for First-Fill, EU CO<sub>2</sub>-Emission regulations and angle drives acc.1)

## Maintenance

Oil and filter change intervals on the DIWA transmission

- Profile 1: 150,000 km
- Profile 2: 180,000 km

## Bus application profiles

### Profile 1:

- Average speed < 15 km/h (SORT 1) and service in mountainous or flat areas
- Average speed  $\geq$  15 km/h (SORT 2, SORT 3) and service in mountainous areas

### Profile 2:

- Average speed  $\geq$  15 km/h (SORT 2, SORT 3) and service in flat areas

## Other possible application field

Due to exceptional properties we are approved for use in non-Voith transmissions. Please speak to your local representative for more information.

V Liquid Green Plus is also suitable for:

- Automatic transmissions, torque converters, steering system, hydraulic clutches

## Approvals & specifications

- VOITH 150.014524xx<sup>1)</sup> (maximum drain interval)

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## Package & code

Packaging	Quantity	Order number
Tank	1,000 lt	301 510 250
Drum	209 lt	301 510 249
Bucket	25 lt	301 510 248
Can	5 lt	301 510 247

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**VOITH**

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for Generations