



Industrial Technology

**Brake systems for special vehicles**

**List of lubricants TE-ML 15**

Product groups	Approved lubricants for service fills
<p><b>Hydraulic supply units</b></p> <p><b>Hydraulic accumulators</b> Volumes: 1.0 / 1.25 / 1.5 / 1.75 / 2.0 / 3.25 liters</p> <p><b>Hydraulic dual-circuit spring accumulators</b></p> <p><b>Hydraulic accumulator valve blocks</b></p> <p><b>Cylinder sub-assemblies</b></p> <ul style="list-style-type: none"> <li>- wheel cylinders</li> <li>- tandem master cylinders</li> <li>- differential pressure warning display</li> <li>- master cylinders</li> <li>- slave cylinders</li> <li>- pressure intensifiers</li> </ul> <p><b>Brake calipers resistant to mineral oil</b></p> <ul style="list-style-type: none"> <li>- 2 fixed piston calipers piston diameter: 54 / 60 mm</li> <li>- 4 fixed piston calipers piston diameter: 57 / 61 mm</li> </ul> <p><b>(Refer to maintenance manual for assignment of operating oils)</b></p>	<p>- Nato-Code H-515 - Nato-Code H-540 - Nato-Code C-635</p>
<p><b>Brake system</b> <b>M 113 troop carrier</b></p>	<p>- Nato-Code H-544</p>
<p><b>Brake caliper resistant to brake fluid</b> 2 fixed piston calipers piston diameter: 54 / 60 mm</p>	<p>- Nato-Code H-542</p>
<p><b>Assembly paste</b></p>	<p>- Ultra Therm, Fa. Walter Zepf Schmierungstechnik</p>

Additives of any kind added **later** to the oil change the oil in a manner that is unpredictable, and they are therefore not permitted. No liability of any kind will be accepted by ZF for any damage resulting from the use of such additives.

The list of lubricants TE-ML 15, **edition 01.07.2020** replaces all previous editions. The current list can be requested from any ZF after-sales service center or accessed on the Internet under [www.aftermarket.zf.com/lubricants](http://www.aftermarket.zf.com/lubricants).

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