



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.

<p>The list of lubricants TE-ML 15, <b>edition 01.01.2019</b> replaces all previous editions. The current list can be requested from any ZF after-sales service center or accessed on the Internet under <a href="http://www.zf.com/lubricants">www.zf.com/lubricants</a>.</p>	<p><b>ZF Friedrichshafen AG</b> D-88038 Friedrichshafen <a href="http://www.zf.com/contact">www.zf.com/contact</a></p>
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