

SMT Scharf GmbH · Postfach 23 27 · D 59013 Hamm

LUKOIL Lubricants Co
 Moscow, Malaya Yakimanka st., 4
 Industrial OEM Department
 Mr. Stepan Kirillov

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– **Approval for use of LUKOIL lubricants in SMT Scharf equipment**

02.05.2016

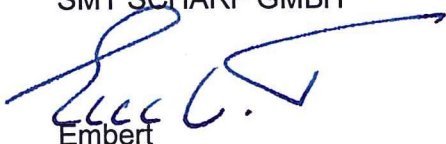
Dear Mr. Kirillov,

on condition that LUKOIL lubricants meet the following standards/requirements, we herewith give in our approval for use in SMT Scharf equipment:

Fluids:	Standards/requirements:
Hydraulic fluid: LUKOIL GEYSER Universal 22 LUKOIL GEYSER LT 22 LUKOIL GEYSER ST 32 LUKOIL GEYSER LT 32 LUKOIL GEYSER Polar 32 LUKOIL GEYSER ST 46 LUKOIL GEYSER LT 46	SMT Scharf equipment is designed for operation with flame-resistant hydraulic fluid of the HFC group (VDMA 24317). Optionally, operation with mineral oil of the HLP group (DIN 51524 T2) under consideration of national regulations is possible. The corresponding viscosity class depends on the temperature conditions at the place of use.
Gear oil: LUKOIL STEELO 68 LUKOIL STEELO 100	EP SAE 85 W90 CLP 68 DIN 51517 T3 CLP 100 DIN 51517 T3
Engine oil: LUKOIL AVANTGARDE 20W-20	ACEA(CCMC) classification E2-96, E3-96, E4-98 (D4, D5) API classification CG-4, CF-4 ACEA(CCMC) classification E3 – E5 EMA classification DHD-1 API classification CH-4 ACEA classification E5
Grease: LUKOIL Polyflex EP2-160	DIN 51825

Kind regards,

SMT SCHARF GMBH



Embert



i. V.
 Wilting