

HAEUSLER

the forming factory

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Duggingen, 29.05.2015

WO: 3033 and 3034
Machine Type: HDR-AS-hy 3000-170 and VRM-hy 3000-424

Subject: Replacement the lubricants against Russian analogue lubricants

Dear Mr. Dmitri Melnikow,

we herewith confirm the use of the following lubricants on our hydraulic plate bending machines. The following lubricants were compared:

1) LUKOIL GEYSER LT 46 with the DIN standard 51524 part 3 seems confirm with the Shell Tellus S2 V46 from our table in the documentation of the machine. These lubricants have the same DIN standard 51524 and viscosity grade 46 in the data sheet and therefore these lubricants have the same properties.

2) LUKOIL POLYFLEX EP2 with the DIN standard 51502 and NLGI consistency and seems confirm with our used grease Shell Gadus S2 V220 2 from the table in the documentation of the machine as well and can also be used in our hydraulic plate bending machines.

3) The gear oil Mobilgear 600 XP 320, which was registered in your letter is not used anywhere in our company and on our plate bending machines and also not listed in the documentation in the table. However, we have compared these lubricants LUKOIL STEELO 320 and Mobilgear 600 XP 320 together and the DIN standard 51517 part 3 of these two lubricants is consistent.

Alternatively, we have also compared the gear oil Shell Omala S2 G 220 for VRM-hy 3000-424 and Shell Omala S2 G 320 for HDR-AS-hy 3000-170 (which can be found in our documentation in the appropriate table) with the gear oil Mobilgear 600 XP 320 and LUKOIL STEELO 320. These lubricants have the same DIN standard 51517 parts 3 in the data sheet and therefore these lubricants have the same properties and can also be used in our plate bending machines.

We hope having assisted you with this information and hope for a good cooperation!

Yours sincerely,



Sergej Penzenstadler
Technical Sales and Support

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