

ROLF Lubricants GmbH
Herr Sergej Metzker
Neuer Wall 26-28
20354 Hamburg
Deutschland

Reference: ROLF Hydraulic HLP Series

7th October 2021

Dear Sir/Madam,

Testing was conducted by Afton Chemical Ltd. on ROLF Hydraulic HLP 22, 32, 46, 68 fluids based on Afton Chemical Ltd. additive HiTEC® in Group I base stocks:

Testing has given passing performance for the above ROLF Hydraulic HLP 22, 32, 46, 68 formulations against key requirements of the following specifications:

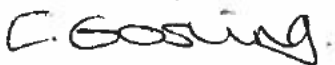
- DIN 51524 part II (ISO VG 22-68)
- ISO 11158 HM (ISO VG 22-68)
- Parker HF-0 (ISO VG 32, 46 and 68)
- Bosch Rexroth RDE 90235 (ISO VG 32 and VG 46)

Based on this testing, and additional data available for HiTEC® in alternative Group I basestocks, the above ROLF Hydraulic HLP formulations when formulated with Afton Chemical Ltd. hydraulic product HiTEC® in Group I basestocks would be expected to meet the requirements of DIN 51524 part II and ISO 11158 HM.

A formal application to Bosch Rexroth and Parker with full validation versus the OEM specification requirements would be required for official fluid approval. A formal approval has not been requested at this time.

The above statements are invalidated if the formulations deviate from Afton Chemical's recommendations. Supporting data can be obtained from Afton Chemical Ltd. on request.

Yours sincerely,



Clare Gosling
Snr. Customer Technical Service Technologist

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