MOL Ultrans EP 220 premium industrial gear oil

Viscosity grade: **ISO VG 220**

Specifications

ISO 12925-1 CKD
ISO-L-CKD
DIN 51517-3 (CLP)
AGMA 9005-E02 EP
AGMA 251.02 EP
AGMA 250.04 EP
AIST (US Steel) 224
David Brown S1.53.101 Type E

Approvals

Cincinnati Lamb P-74
Flender (Siemens)

Cincinnati Lamb P-74

András Péceli
Regional OEM Key Account Manager
MOL-Lub Kft
2931 Almásfűzitő Fő.u.21

May 23, 2011 **(TRD)**

Dear András:

This letter is to inform you of the approvals of the following products which have met the requirements for the MAG specifications and will appear in our Approved Lubricants listings as shown below unless you notify us otherwise.

SUPPLIER NAME

MOL-LUB Ltd.

PRODUCT NAMES	MAG P-SPEC	MAG REF#
MOL Hydro HME 32	**P-68**	**500711**
MOL Hydro HME 46	**P-70**	**500811**
MOL Hydro HME 68	**P-69**	**500911**
MOL Ultrans EP 220	**P-74**	**501011**
MOL Multi SW 68	**P-47**	**501111**
MOL Multi SW 220	**P-50**	**501211**

We are granting the approvals for these products based on the samples submitted to us for evaluation. Should any changes or reformulations occur, we are to be notified of these changes and the reformulated product must be submitted for evaluation and re-approval. Sampling of all approved products are made periodically from the field for evaluation. Should the product sampling disclose significant variations from that which has been approved, the product will immediately be removed from the Approved Products list. **These approvals are for a period of three years from the test report date (TRD).**

Sincerely,

Dietrich Neumann
Lubricants Lab Specialist
MAG IAS, LLC
dietrich.neumann@mag-ias.com

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Flender (Siemens)

FLENDER GEAR UNITS

Approval of Gear Oil

No. A-MO-20120619

Date of expire: 21 March 2016

For the gear oil **MOL Ultrans EP**
with a viscosioty range of **ISO VG 150 - 460**
for sale by the company **MOL-LUB Kfl**

the compliance with the CLP quality in accordance with DIN 51517-3 is guaranteed by the selling company.
The selling company has had performed the following tests according to the

Specification of oil approvals for FLENDER gear units , Rev. 13
for Helical-, Bevel- and Planetary gear units

with the mentioned oil. The test results were presented to Siemens.

- FZG scuffing test (A/8.3/90) in accordance with DIN ISO 14635-1
- FE-8-rolling bearing test (D-7,5/80-80) in acc. with DIN 51819-3
- Compatibility with gear unit internal coatings P22-8050 and Nuvopur Aqua Primer 510.1.6.1400
- Compatibility with Loctite 128068 liquid sealing compound
- Compatibility with elastomer seal material 72 NBR 902 & 75 FKM 585 - static test
- Compatibility with elastomer shaft seals 72 NBR 902 and 75 FKM 585 - dynamic test
- Flender oil foaming test according GG-V 425
- Micropitting test FVA 54 I-IV

- Double speed FZG scuffing test A/16.6/90 similar like DIN ISO 14635-2

According to the presented test results, the conditions demanded by Siemens were satisfied.
We therefore recommend the using of the above mentioned oil for our following gear units

Helical-, Bevel- and Planetary gear units

Bocholt, 19-06-2012

Dr.-Ing. Gerhard Gajewski
Siemens AG
Mechanical Drives
Quality, Lubricant Management

Michael Knoblich
Siemens AG
Mechanical Drives
Quality, Product Safety

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