FLENDER GEAR UNITS

Approval of Gear Oil

No. A-SI-20131108

Date of expire:

11 January 2018

For the gear oil

Great Wall AP-S

with the base oil

PAO Group IV

with a viscosity range of

ISO VG 220 - 680

for sale by the company

Lubricant Company, Sinopec Corp

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 75 FKM 260466, 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

Teconimical the using of the above mentioned on for our following goar arms

Helical-, Bevel- and Planetary gear units

Bocholt, 08-11-2013

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Siemens AG

Mechanical Drives

Quality, Lubricant Management

Michael Knoblich

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Quality, Product Safety

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