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Report on the examination of calculation documents

Customer: WITTUR Electric Drives GmbH
Offenburger Straße 3
01189 Dresden - Germany

TÜV Equipment: 2840594

Subject of examination: Traction sheave shaft for Lift machines,
types WSG-MF.X

Scope of order: Examination of the calculation of the traction
sheave shaft

Date: 2018-05-09

Our reference:
IS-FT1-DRE/dmü

Specification: DIN 743-1: 2012-12 - Calculation of load capacity
of shafts and axles

Document:
2840594_en.docx

Scope of examination:

- Examination of the calculations to ensure compliance with the specifications
- Examination of the calculation results
- Examination of the calculation documents to ensure compliance with the data in the drawings

This Document consists of
2 Pages.
Page 1 of 2

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Expert: Dipl.-Ing. Thoralf Mührel
Sachverständiger

The test results refer exclusively
to the units under test.





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1. Calculation documents

The following technical documentation was subject of the examination:

- Calculation documents WSG-MF_FE1_2018.docx, pages 1 to 6, dated 2018-04-05 incl. Annexes.
- Drawing 640 502 X00 (revision Äm 74/18, 2018-03-09).

2. Technical Data

The data which are of relevance to the calculation are specified as follows in the calculation document WSG-MF_FE1_2018.docx:

- | | |
|-----------------------------------------------|-----------|
| – max. axle load (center of traction sheave): | 45,0 kN |
| – max. magnetic pull: | 0,8 kN |
| – Rated torque: | 1620,0 Nm |
| – Brake torque: | 1224,0 Nm |
| – Emergency braking torque: | 2400,0 Nm |
| – Traction sheave weight: | 51,4 kg |
| – Rotor weight: | 55,0 kg |

3. Examination result

The calculations submitted were drawn up in compliance with the specification. The values determined in the safety verification calculation could be confirmed by performing a control calculation. The data in drawing no. 640 502 X00 comply with the values relevant for the calculation.

The expert

A handwritten signature in blue ink, reading 'Thoralf Mührel'.

Thoralf Mührel



Traction sheave shaft (Annex - calculation of the shaft)

