

Unit ID **MS OELCHECK**
Component **Unterwassergetriebe**
Current sample number **1701014**

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Typical Example Report
Analysis Kit: Analysis-Kit 2

Machine type: **Ruderpropeller**
Manufacturer: **Schottel**
Oil brand name: **Aral Degol BG 68**
Oil quantity in system: **18**

Diagnosis for the current laboratory values

The values for wear metals have only increased slightly. This low wear is within the normal range. The water value is too high and is far above the permissible level. Too much water may cause corrosion and/or cavitation. The viscosity at 100°C and the viscosity index cannot be determined correctly because of the high water content. I recommend that you change the oil because of the high concentration of water or remove the water using suitable techniques.

Dipl.-Ing. Steffen Bots

Sample Rating



action

| ANALYSIS RESULTS | | | Current sample | Previous samples | |
|----------------------------|--------------------|-------|-------------------|------------------|--|
| LAB NUMBER | | | 1701014 | | |
| SAMPLE RATING | | | | | |
| Date tested | | | 17.12.2009 | | |
| Date sample taken | | | 11.12.2009 | | |
| Date of last oil change | | | 23.10.2009 | | |
| Top-up since change | | | - | | |
| Operating hrs since change | | | 112 | | |
| Total operating hrs | | | - | | |
| Oil changed | | | no | | |
| WEAR | | | | | |
| Iron | Fe | mg/kg | 33 | | |
| Chrome | Cr | mg/kg | 0 | | |
| Tin | Sn | mg/kg | 1 | | |
| Aluminum | Al | mg/kg | 0 | | |
| Nickel | Ni | mg/kg | 0 | | |
| Copper | Cu | mg/kg | 6 | | |
| Lead | Pb | mg/kg | 0 | | |
| PQ index | - | | 39 | | |
| CONTAMINATION | | | | | |
| Silicon | Si | mg/kg | 0 | | |
| Potassium | K | mg/kg | 19 | | |
| Sodium | Na | mg/kg | 0 | | |
| Water | % | | 0.18 | | |
| OIL CONDITION | | | | | |
| Viscosity at 40°C | mm ² /s | | 77.34 | | |
| Viscosity index | - | | 0 | | |
| Oxidation | A/cm | | 1 | | |
| ADDITIVES | | | | | |
| Calcium | Ca | mg/kg | 9 | | |
| Magnesium | Mg | mg/kg | 4 | | |
| Boron | B | mg/kg | 4 | | |
| Zinc | Zn | mg/kg | 8 | | |
| Phosphorous | P | mg/kg | 254 | | |
| Barium | Ba | mg/kg | 0 | | |
| Molybdenum | Mo | mg/kg | 0 | | |
| ADDITIONAL TESTS | | | | | |
| Neutralisation number | mgKOH/g | | 0.30 | | |

Bottle and Cap



Infrared Spectrum

