

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

