LAB REPORT

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Unit ID **Lubricating grease**

Component Rolling bearing

Current sample number 1700756

OELCHECK GmbH · Postfach 1116 · 83094 Brannenburg

Example report
Analysis scope: Analysis-Kit 4

Machine type:	**ABC**
Manufacturer:	**Siemens**
Grease type:	**Shell Retinax LX 2**
Grease quantity:	**200 g**

Diagnosis for the current laboratory values

Iron and copper have increased significantly through corrosion or abrasive wear. The water content has increased slightly. The measured oil loss in the bleeding test is very low. The grease can hardly absorb the necessary oil for lubrication. Possible reason: e.g. grease bleeding or destruction of thickener structure. The FT-IR spectrum shows significant differences relative to the reference sample. The old lubricant sould be removed from the bearing immediately or should be purged through increased lubrication from the lubrication point to avoid further wear or damage.

Dipl.-Ing. Stefan Mitterer

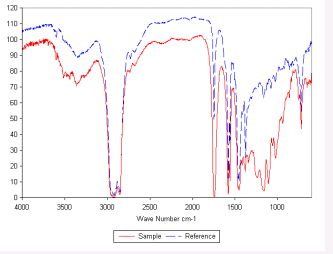
Sample Rating

action

ANALYSIS RESULTS			Current sample	Previous samples		
LAB NUMBER			**1700756**			
SAMPLE RATING			!			
Date tested			**20.03.2015**			
Date of sample taken			**18.03.2015**			
Date of last relubrication			**14.10.2014**			
Relubrication Quantity		g	**20**			
Relubrication Interval			**-**			
Total operating time		h	**1180**			
Relubrication			**no**			
WEAR						
Iron	Fe	mg/kg	**849**			
Chrome	Cr	mg/kg	**15**			
Tin	Sn	mg/kg	**9**			
Aluminum	Al	mg/kg	**6**			
Nickel	Ni	mg/kg	**0**			
Copper	Cu	mg/kg	**3521**			
Lead	Pb	mg/kg	**92**			
PQ index	-		**63**			
CONTAMINATION						
Silicon	Si	mg/kg	**29**			
Potassium	K	mg/kg	**132**			
Sodium	Na	mg/kg	**691**			
Water K. F.	ppm		**1568**			
ADDITIVES						
Calcium	Ca	mg/kg	**1720**			
Magnesium	Mg	mg/kg	**10**			
Boron	B	mg/kg	**1864**			
Zinc	Zn	mg/kg	**2152**			
Phosphorus	P	mg/kg	**825**			
Barium	Ba	mg/kg	**9**			
Molybdenum	Mo	mg/kg	**0**			
ADDITIONAL TESTS						
Bleeding test, oil loss	% Wt.		**5.0**			
Bleeding test, oil spot ø	mm		**34**			

Bottle and Cap

Infrared Spectrum



Bleeding test, oil spot ø