LABORATORY REPORT

Sample description **KT10FT01PA01PU01 -1**
Component **Hydraulic**

Number of the current sample **2363213**

Machine type: Thick matter pump 01
Manufacturer: Putzmeister
Name of the oil: BP Energol HLP-HM 46
Amount of oil in the system: 650 l

Diagnosis of the current laboratory values

The values of wear metals have only slightly increased. This low wear is within the normal range. The purity class of the oil complies with the requirements. There are contaminations in the sample (particles >40µ) visible to the naked eye. The determined values may have been influenced by the sampling. The purity should be improved. I advise you: Send us the next sample during your next maintenance or during the normal inspection in order to observe the trend behavior.

Graduate engineer (FH) Stefan Mitterer

Overall evaluation

Note

ANALYSIS RESULTS LABORATORY NUMBER			Current sample 2363213	Previous investigations	Further sample details
OVERALL EVALUATION					Filtration: 5 µm Filtration: 5 µm
Date of investigation			28.01.2013		
Date of sampling			10.01.2013		
Date of last oil change			25.05.2012		
Refilling amount since change			-		
Duration since change		h	8839		
Whole duration			-		
Changing of oil			No		
WEAR					
Iron	Fe	mg/kg	3		
Chrome	Cr	mg/kg	1		
Tin	Sn	mg/kg	0		
Aluminium	Al	mg/kg	0		
NIckel	Ni	mg/kg	0		
Copper	Cu	mg/kg	1		
Lead	Pb	mg/kg	0		
Molybdenum	Mo	mg/kg	0		
PQ index	-		OK		
CONTAMINATION					
Silicon	Si	mg/kg	0		
Potassium	K	mg/kg	1		
Sodium	Na	mg/kg	2		
Water K.F.	ppm		52		
OIL CONDITION					

Viscosity at 40°C	mm^2/s		46.14
Viscosity at 100°C	mm^2/s		6.69
Viscosity indes	-		97
Oxidation	A/cm		1

ADDITIVES

Calcium	Ca	mg/kg	30
Magnesium	Mg	mg/kg	0
Boron	B	mg/kg	0
Zinc	Zn	mg/kg	389
Phosphorus	P	mg/kg	335
Barium	Ba	mg/kg	0
Sulphur	S	mg/kg	2284

ADDITIONAL TESTS

Purity class	ISO 4406 (1999)	20/17/12
A: >4µm=ISO >4µm	Number/100ml	669423
B: >6µm=ISO >6µm	Number/100ml	105187
C: >14µm=ISO>14µm	Number/100ml	3750
D: >21µm	Number/100ml	921
E: >38µm	Number/100ml	121
F: >70µm	Number/100ml	0
Purity class	SAE AS 4059	10A

Sample and lid

Infrared spectrum