

LABORATORY REPORT

Sample description **KT10FT01PA01PU01 -1**
 Component **Hydraulic**
 Number of the current sample **2363214**

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 waste values are within the normal range. The purity class of the oil complies with the requirements. The measured viscosity is within the range of ISO VG 46. I advise you: Send us the next sample during your next maintenance or during the normal inspection in order to observe the trend behavior.

Overall evaluation

Graduate engineer (FH) Stefan Mitterer

Normal

ANALYSIS RESULTS		Current sample		Previous investigations
LABORATORY NUMBER		2363214	2363213	
OVERALL EVALUATION				
Date of investigation		28.01.2013	28.01.2013	
Date of sampling		11.01.2013	10.01.2013	
Date of last oil change		20.05.2011	24.05.2012	
Refilling amount since change		-	-	
Duration since change	h	8839	8839	
Whole duration		-	-	
Changing of oil		No	No	
WEAR				
Iron	Fe mg/kg	3	3	
Chrome	Cr mg/kg	1	1	
Tin	Sn mg/kg	0	0	
Aluminium	Al mg/kg	0	0	
Nickel	Ni mg/kg	0	0	
Copper	Cu mg/kg	0	1	
Lead	Pb mg/kg	1	0	
Molybdenum	Mo mg/kg	0	0	
PQ index	-	OK	OK	
CONTAMINATION				
Silicon	Si mg/kg	0	0	
Potassium	K mg/kg	1	1	
Sodium	Na mg/kg	2	2	
Water K.F.	ppm	40	52	

OIL CONDITION

Viscosity at 40°C	mm ² /s	45.84	46.14
Viscosity at 100°C	mm ² /s	6.64	6.69
Viscosity index	-	96	97
Oxidation	A/cm	1	1

ADDITIVES

Calcium	Ca	mg/kg	31	30
Magnesium	Mg	mg/kg	0	0
Boron	B	mg/kg	1	0
Zinc	Zn	mg/kg	395	389
Phosphorus	P	mg/kg	322	335
Barium	Ba	mg/kg	0	0
Sulphur	S	mg/kg	2272	2284

ADDITIONAL TESTS

Purity class	ISO 4406 (1999)	18/16/11	20/17/12
A: >4µm=ISO >4µm	Number/100ml	184963	669423
B: >6µm=ISO >6µm	Number/100ml	34254	105187
C: >14µm=ISO>14µm	Number/100ml	1368	3750
D: >21µm	Number/100ml	339	921
E: >38µm	Number/100ml	35	121
F: >70µm	Number/100ml	17	0
Purity class	SAE AS 4059	8A	10A

Sample and lid



Infrared spectrum

