

LABORATORY REPORT

Sample description **KT10SA01HY05**
Component **Hydraulic**
Number of the current sample **2343141**

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Machine type: Hydraulic system line 03
Manufacturer: Viereck
Name of the oil: BP Energol HLP-HM 46
Amount of oil in the system: 650 l

Diagnosis of the current laboratory values

#2343141 = KT10SA01HY05-1, before cleaning with an ultra fine filtering unit. Iron has slightly increased. Silicon has slightly increased. In most cases it is dust, sometimes it is also non-abrasive acting silicone components of installation aids, grease containing silicone, or elastic seals. The purity class of the oil complies with the requirements. 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

Note

ANALYSIS RESULTS LABORATORY NUMBER	Current sample 2343141	Previous investigations
OVERALL EVALUATION		
Date of investigation	27.12.2012	
Date of sampling	03.12.2012	
Date of last oil change	15.11.2011	
Refilling amount since change	-	
Duration since change	h 1656	
Whole duration	m 12	
Changing of oil	No	
WEAR		
Iron	Fe mg/kg	13
Chrome	Cr mg/kg	0
Tin	Sn mg/kg	1
Aluminium	Al mg/kg	3
Nickel	Ni mg/kg	0
Copper	Cu mg/kg	4
Lead	Pb mg/kg	0
Molybdenum	Mo mg/kg	0
PQ index	-	OK
CONTAMINATION		
Silicon	Si mg/kg	11
Potassium	K mg/kg	0
Sodium	Na mg/kg	0
Water K.F.	ppm	39

OIL CONDITION

Viscosity at 40°C	mm ² /s	45.38
Viscosity at 100°C	mm ² /s	6.80
Viscosity index	-	104
Oxidation	A/cm	1

ADDITIVES

Calcium	Ca	mg/kg	37
Magnesium	Mg	mg/kg	0
Boron	B	mg/kg	0
Zinc	Zn	mg/kg	403
Phosphorus	P	mg/kg	316
Barium	Ba	mg/kg	0
Sulphur	S	mg/kg	2005

ADDITIONAL TESTS

Purity class	ISO 4406 (1999)	22/16/10
A: >4µm=ISO >4µm	Number/100ml	2642970
B: >6µm=ISO >6µm	Number/100ml	40220
C: >14µm=ISO>14µm	Number/100ml	924
D: >21µm	Number/100ml	287
E: >38µm	Number/100ml	50
F: >70µm	Number/100ml	17
Purity class	SAE AS 4059	12A

Sample and lid



Infrared spectrum

