

# LAB REPORT



Kerschelweg 28 · 83098 Brannenburg · Germany  
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Unit ID **Forming press**  
Component **Hydraulic**  
Current sample number **1700767**



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OELCHECK GmbH · Postfach 1116 · 83094 Brannenburg

Machine type: **500to**  
Manufacturer: **Schuler Hydrap**  
Oil brand name: **Shell Tellus 46**  
Oil quantity in system: **5000 l**

Example report  
Analysis scope: Analysis-Kit 4

## Diagnosis for the current laboratory values

Wear metals are only present in negligible concentrations. Hardly any abrasive or corrosive wear is therefore visible. The additive elements differ from the fresh oil. Possible reasons could be a different oil type or mixture with another oil type. Please observe the system to see whether it has an increased foaming tendency. Oil cleanliness is lower than recommended by component manufacturers. The oil cleanliness should be improved by changing the filter element or by additional bypass filtration. Please observe further changes with the next sample. Please send us another sample on the occasion of your next inspection, but no later than six months from now.

Dipl.-Ing. Hendrik Karl

## Sample Rating



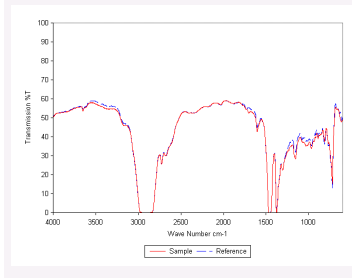
## Caution

ANALYSIS RESULTS			Current sample	Previous samples	
<b>LAB NUMBER</b>			<b>1700767</b>	1700768	
<b>SAMPLE RATING</b>			?	✓	
Date tested			<b>26.06.2014</b>	23.10.2013	
Date of sample taken			<b>25.06.2014</b>	21.10.2013	
Date of last oil change			<b>01.01.2005</b>	01.01.2005	
Top-up since change	l		<b>2000</b>	1500	
Operating time since change	a		<b>8,5</b>	8	
Total operating time	h		<b>44708</b>	40109	
Oil changed			<b>no</b>	no	
<b>WEAR</b>					
Iron	Fe	mg/kg	<b>3</b>	3	
Chrome	Cr	mg/kg	<b>1</b>	1	
Tin	Sn	mg/kg	<b>1</b>	0	
Aluminum	Al	mg/kg	<b>0</b>	0	
Nickel	Ni	mg/kg	<b>0</b>	0	
Copper	Cu	mg/kg	<b>3</b>	3	
Lead	Pb	mg/kg	<b>0</b>	0	
Molybdenum	Mo	mg/kg	<b>0</b>	0	
PQ index	-		<b>&lt; 25</b>	< 25	
<b>CONTAMINATION</b>					
Silicon	Si	mg/kg	<b>0</b>	0	
Potassium	K	mg/kg	<b>3</b>	2	
Sodium	Na	mg/kg	<b>2</b>	1	
Water K. F.	ppm		<b>123</b>	97	
<b>OIL CONDITION</b>					
Viscosity at 40°C	mm²/s		<b>48.40</b>	47.40	
Viscosity at 100°C	mm²/s		<b>6.94</b>	6.75	
Viscosity index	-		<b>98</b>	94	
Oxidation	A/cm		<b>2</b>	3	
<b>ADDITIVES</b>					
Calcium	Ca	mg/kg	<b>112</b>	51	
Magnesium	Mg	mg/kg	<b>0</b>	0	
Boron	B	mg/kg	<b>0</b>	0	
Zinc	Zn	mg/kg	<b>650</b>	311	
Phosphorus	P	mg/kg	<b>431</b>	298	
Barium	Ba	mg/kg	<b>3</b>	3	
Sulphur	S	mg/kg	<b>5412</b>	2131	

## Bottle and Cap



## Infrared Spectrum



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ADDITIONAL TESTS				
AN / NN	mgKOH/g	<b>0.53</b>	0.33	
Cleanliness class	ISO 4406 (1999)	<b>20/18/14</b>	18/13/11	
A: >4µm = ISO >4µm	Particles/100ml	<b>691090</b>	201860	
B: >6µm = ISO >6µm	Particles/100ml	<b>147370</b>	4540	
C: >14µm = ISO >14µm	Particles/100ml	<b>13890</b>	1110	
D: >21µm	Particles/100ml	<b>4890</b>	960	
E: >38µm	Particles/100ml	<b>600</b>	390	
F: >70µm	Particles/100ml	<b>70</b>	40	
Cleanliness class	SAE AS 4059	<b>10A</b>	9A	