

Unit ID **Hydraulic Calender**  
 Component **Hydraulics**  
 Current sample number **1705840**



OELCHECK GmbH · Kerschelweg 28 · 83098 Brannenburg

Oil brand name: **Hydrauliköl ISO VG 68**  
 Oil quantity in system: **10000 l**

Example report  
 Analysis scope: Paper machine kit Hydraulic

### Diagnosis for the current laboratory values

Wear metals are only present in negligible concentrations. Hardly any abrasive or corrosive wear is therefore visible. The cleanliness class of the oil complies with the requirements. The water content is within the normal range. If no oil change has happened yet, it is possible to continue using the oil under similar operating conditions and under continuation of the usual maintenance schedule. I recommend that you send the next sample at the next service interval or at your regular inspection for trend analysis.

Dipl.-Ing. Andy Böhme (CLS)

### Sample Rating



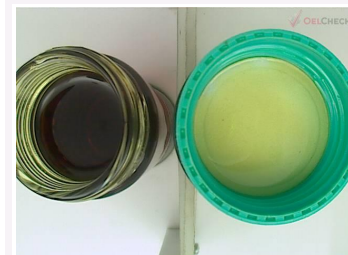
**normal**

ANALYSIS RESULTS			Current sample	Previous samples		
LAB NUMBER			1705840	1705841	1705842	1705843
SAMPLE RATING			✓	✓	ⓘ	ⓘ
Date tested			06.12.2023	02.03.2023	05.01.2023	06.12.2021
Date of sample taken			04.12.2023	23.02.2023	04.01.2023	01.12.2021
Date of last oil change			-	-	-	-
Top-up since change			-	-	-	-
Operating time since change			-	-	-	-
Total operating time			-	-	-	-
Oil changed			no	no	-	no
WEAR						
Iron	Fe	mg/kg	1	2	2	2
Chrome	Cr	mg/kg	0	0	0	0
Tin	Sn	mg/kg	0	0	0	0
Aluminum	Al	mg/kg	0	0	0	0
Nickel	Ni	mg/kg	0	0	0	0
Copper	Cu	mg/kg	1	1	1	1
Lead	Pb	mg/kg	1	0	0	0
Molybdenum	Mo	mg/kg	0	0	0	0
Manganese	Mn	mg/kg	0	0	0	0
PQ index	-		< 25	< 25	< 25	< 25
CONTAMINATION						
Silicon	Si	mg/kg	1	0	1	0
Potassium	K	mg/kg	0	0	1	0
Sodium	Na	mg/kg	1	0	1	3
Lithium	Li	mg/kg	-	-	-	1
Water K. F.	ppm		39	62	51	30
OIL CONDITION						
Viscosity at 40°C	mm²/s		67.85	68.04	67.91	67.79
Viscosity at 100°C	mm²/s		10.08	10.32	10.36	10.19
Viscosity index	-		133	138	139	136
Oxidation	A/cm		1	1	1	1
IR index	-		99.34	99.26	99.22	99.18
ADDITIVES						
Calcium	Ca	mg/kg	102	96	95	94
Magnesium	Mg	mg/kg	1	0	0	1
Boron	B	mg/kg	2	1	0	1
Zinc	Zn	mg/kg	12	8	9	13
Phosphorus	P	mg/kg	377	410	427	440
Barium	Ba	mg/kg	0	0	0	0
Sulphur	S	mg/kg	1914	1873	1979	2409

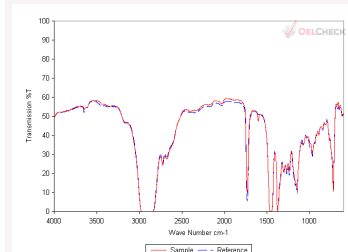
### Additional sample details

Valve technique:  
**Middle or low pressure hydraulic (< 160 bar)**  
 Sampling Point:  
**Pressure line**  
 Filtration:  
**Main/Inline filtration**  
 Pore size: **6 µm**  
 Ambient conditions: **Hot**

### Bottle and cap



### Infrared Spectrum



# LAB REPORT

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Date of last oil change		-	-	-	-
Top-up since change		-	-	-	-
Operating time since change		-	-	-	-
Total operating time		-	-	-	-
Oil changed		no	no	-	no
ADDITIONAL TESTS					
Cleanliness class	ISO 4406	16/15/11	16/15/11	17/16/13	21/19/15
A: >4µm = ISO >4µm	Particles/100ml	53591	59323	74450	1298799
B: >6µm = ISO >6µm	Particles/100ml	16349	16384	34997	274044
C: >14µm = ISO >14µm	Particles/100ml	1869	1606	4722	23588
D: >21µm	Particles/100ml	504	240	945	7289
E: >38µm	Particles/100ml	26	32	0	221
F: >70µm	Particles/100ml	13	32	0	14
Cleanliness class	SAE AS 4059	7A	7A	7A	11A

