

LAB REPORT

Unit id
HYDRAULICS CALENDER
Component
Hydraulics



Lab number: 1705840

Oil brand name
Hydraulic Oil ISO VG 68

Oil quantity in system
10000 l

Valve technique
Magnetic valve (<160 bar)

Sample Report
Scope of Analysis: Paper Machine Set
Hydraulics

Filtration
Main/Inline filtration

Pore size
6 µm

Wear metals are only present in negligible concentration. Therefore, hardly any abrasive or corrosive wear is evident. The cleanliness class of the oil meets the requirements. The water content is within the normal range. If no oil change has been carried out yet, continued use of the oil would be possible under similar operating conditions while maintaining usual maintenance work. I advise you: Send us the next sample at your next maintenance or on the occasion of the usual inspection to observe the trend behavior.



NORMAL

Dipl.-Ing. Andy Böhme (CLS)

ANALYSIS RESULTS			Current sample	Previous samples →			
Lab number			1705840	1705841	1705842	1705843	
SAMPLE RATING							
Date of examination			08.12.2025	03.03.2025	07.01.2025	06.12.2023	
Date of sample taken			04.12.2025	23.02.2025	04.01.2025	01.12.2023	
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		mm ² /s	67.85	68.04	67.91	67.79	
Viscosity at 100 °C		mm ² /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	

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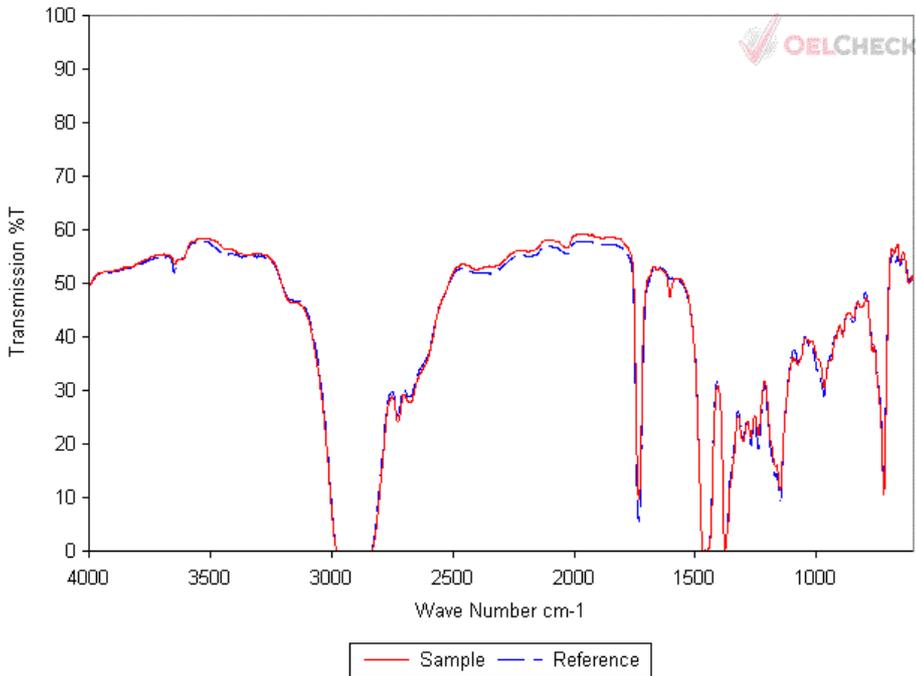
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ADDITIVES							
Calcium	Ca	mg/kg	102	96	95	94	
Magnesium	Mg	mg/kg	1	0	0	1	
Boron	B	mg/kg	2	1	0	1	
Zinc	Zn	mg/kg	12	8	9	13	
Phosphorus	P	mg/kg	377	410	427	440	
Barium	Ba	mg/kg	0	0	0	0	
Sulphur	S	mg/kg	1914	1873	1979	2409	
ADDITIONAL TESTS							
Cleanliness class	ISO 4406		16/15/11	16/15/11	17/16/13	21/19/15	
A: >4µm = ISO >4µm	Anzahl/100ml		53591	59323	74450	1298799	
B: >6µm = ISO >6µm	Anzahl/100ml		16349	16384	34997	274044	
C: >14µm = ISO >14µm	Anzahl/100ml		1869	1606	4722	23588	
D: >21µm	Anzahl/100ml		504	240	945	7289	
E: >38µm	Anzahl/100ml		26	32	0	221	
F: >70µm	Anzahl/100ml		13	32	0	14	
Cleanliness class	SAE AS 4059		7A	7A	7A	11A	



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SAMPLE IMAGES (LABORATORY NUMBER: 1705840)



INFRARED SPECTRUM



BOTTLE AND CAP



Any questions?

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LAB.REPORT



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