

# LAB REPORT

Unit id  
**CALENDER**  
Component  
**Heat transfer oil**



Lab number: 1705844

Oil brand name  
**Thermal Oil**

Oil quantity in system  
**12000 l**

Sample Report  
Scope of Analysis: Paper Machine Set Heat Transfer Oil

The wear values are within the normal range. We cannot detect any unusual oil oxidation. The flash point is unremarkable and within the possible tolerance limit. You should monitor further changes based on the next analysis. I advise you: Send us the next sample at your next maintenance or during the regular inspection to monitor the trend behavior.



**NORMAL**

Dipl.-Ing. Andy Böhme (CLS)

ANALYSIS RESULTS			Current sample	Previous samples →			
Lab number			1705844	1705845	1705846	1705847	
SAMPLE RATING			✓	✓	✓	✓	
Date of examination			26.02.2026	03.03.2025	02.04.2024	06.03.2023	
Date of sample taken			20.02.2026	23.02.2025	29.03.2024	02.03.2023	
Date of last oil change			-	-	-	-	
Top-up since change			200 l	-	400 l	-	
Operating time since change			-	-	-	-	
Total operating time			-	-	-	-	
Oil changed			-	-	-	-	
<b>WEAR</b>							
Iron	Fe	mg/kg	29	25	25	24	
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	3	1	2	2	
Lead	Pb	mg/kg	0	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	
<b>CONTAMINATION</b>							
Silicon	Si	mg/kg	1	0	0	0	
Potassium	K	mg/kg	1	1	0	1	
Sodium	Na	mg/kg	0	0	0	3	
Tungsten	W	mg/kg	1	1	-	1	
Water		%	< 0.10	< 0.10	< 0.10	< 0.10	
<b>OIL CONDITION</b>							
Viscosity at 40 °C		mm <sup>2</sup> /s	21.09	21.21	20.94	20.98	
Viscosity at 100 °C		mm <sup>2</sup> /s	4.15	4.18	4.18	4.20	
Viscosity index		-	95	97	101	102	
Oxidation		A/cm	4	5	4	4	
IR index		-	99.93	99.70	99.52	99.92	

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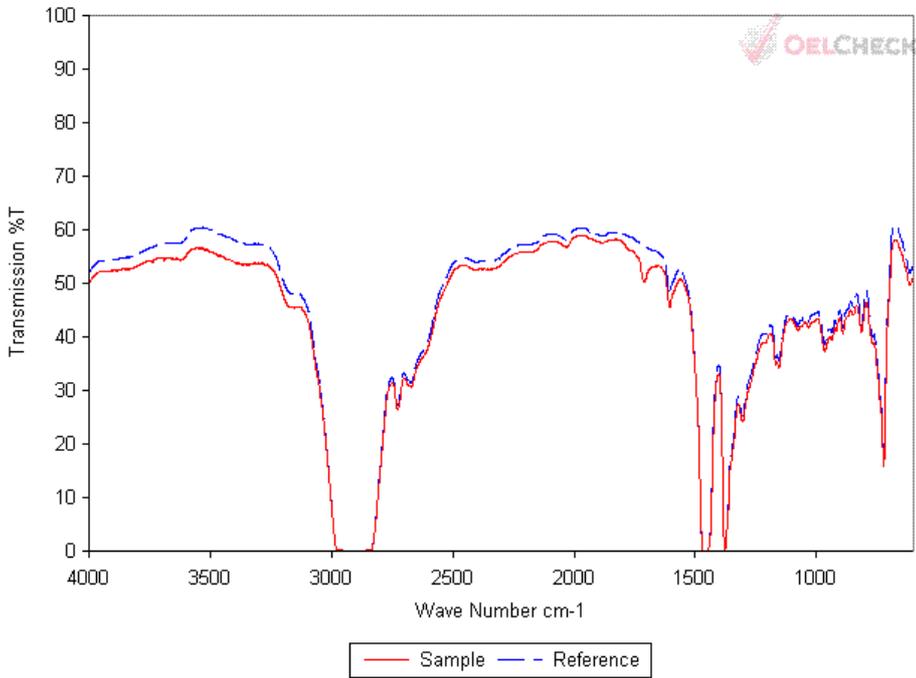
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ADDITIVES						
Calcium	Ca	mg/kg	<b>0</b>	0	1	0
Magnesium	Mg	mg/kg	<b>0</b>	0	1	0
Boron	B	mg/kg	<b>0</b>	0	0	0
Zinc	Zn	mg/kg	<b>0</b>	0	2	0
Phosphorus	P	mg/kg	<b>0</b>	0	0	0
Barium	Ba	mg/kg	<b>0</b>	0	0	0
Sulphur	S	mg/kg	<b>2457</b>	2691	2419	2411
ADDITIONAL TESTS						
AN / NN		mgKOH/g	<b>0.11</b>	< 0.10	0.11	0.13
Flash point closed	S...	°C	<b>185</b>	185	185	180



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## SAMPLE IMAGES (LABORATORY NUMBER: 1705844)



INFRARED SPECTRUM



BOTTLE AND CAP



**Any questions?**

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sample/1705844](http://www.lab.report/sample/1705844)