

LAB REPORT

Unit id
PAPER MACHINE PM2
 Component
Circulating lubrication



Lab number: 1705837

Sample from
Central oil lubrication

Oil brand name
PM ISO VG 220

Oil quantity in system
8000 l

Beispielbericht
 Analysenumfang: Papiermaschinen-Set
 Umlaufschmierung

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. You should monitor the further change based on the next analysis. I advise you: Send us the next sample at your next maintenance or on the occasion of the usual inspection to monitor the trend behavior.



NORMAL

Dipl.-Ing. Andy Böhme [CLS]

ANALYSIS RESULTS			Current sample	Previous samples →		
Lab number			1705837	1705838	1705839	
SAMPLE RATING						
Date of examination			23.03.2026	10.06.2024	04.12.2023	
Sample taken on			20.03.2026	07.06.2024	25.11.2023	
Date of last oil change			16.07.2022	16.07.2022	16.07.2022	
Top-up since change			1400 l	-	200 l	
Operating time since change			43 M	22 M	15 M	
Total operating time			43 M	22 M	15 M	
Oil changed			-	no	no	
WEAR						
Iron	Fe	mg/kg	1	2	0	
Chrome	Cr	mg/kg	0	0	0	
Tin	Sn	mg/kg	0	0	0	
Aluminum	Al	mg/kg	0	0	0	
Nickel	Ni	mg/kg	0	0	0	
Copper	Cu	mg/kg	1	2	0	
Lead	Pb	mg/kg	0	1	0	
Molybdenum	Mo	mg/kg	0	0	0	
Manganese	Mn	mg/kg	0	0	0	
PQ index	-	-	< 25	< 25	< 25	
CONTAMINATION						
Silicon	Si	mg/kg	2	2	1	
Potassium	K	mg/kg	2	2	2	
Sodium	Na	mg/kg	6	27	23	
Water K. F.		ppm	42	> 50000	195	
OIL CONDITION						
Viscosity at 40 °C		mm ² /s	211.49	241.96	209.37	
Viscosity at 100 °C		mm ² /s	19.21	n/a	18.90	
Viscosity index		-	102	n/a	101	
Oxidation		A/cm	1	4	1	
IR index		-	-	-	95.03	

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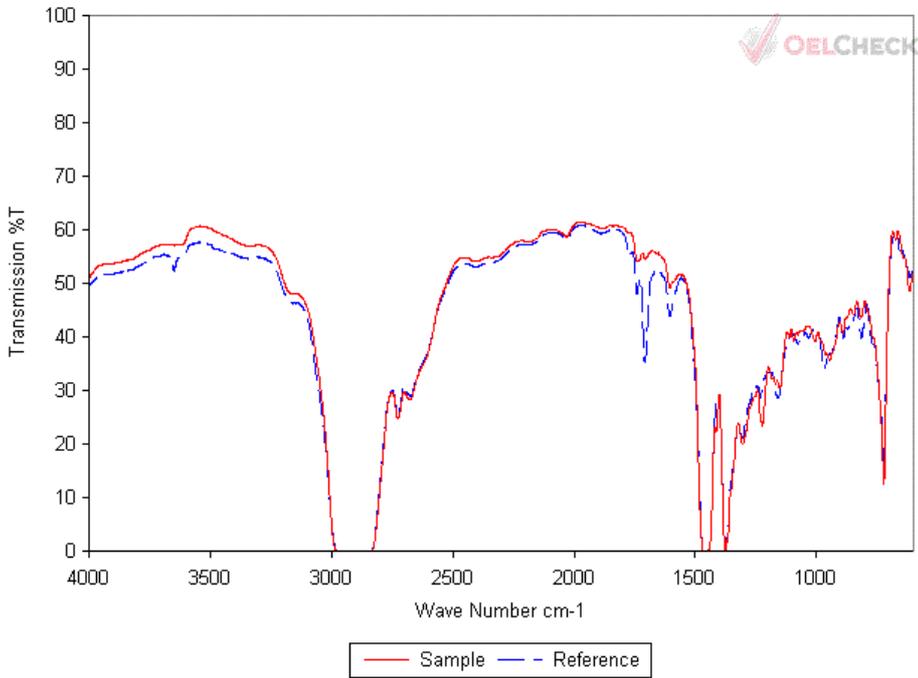
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ADDITIVES						
Calcium	Ca	mg/kg	81	87	99	
Magnesium	Mg	mg/kg	2	1	2	
Boron	B	mg/kg	1	0	0	
Zinc	Zn	mg/kg	3	6	3	
Phosphorus	P	mg/kg	48	51	42	
Barium	Ba	mg/kg	0	0	0	
Sulphur	S	mg/kg	5274	5213	4735	
ADDITIONAL TESTS						
AN / NN		mgKOH/g	0.16	0.71	0.14	
Cleanliness class		ISO 4406	17/15/12		24/23/15	
A: >4µm = ISO >4µm		Anzahl/100ml	73999	-	14344075	
B: >6µm = ISO >6µm		Anzahl/100ml	24777	-	4825921	
C: >14µm = ISO >14µm		Anzahl/100ml	2321	-	23745	
D: >21µm		Anzahl/100ml	494	-	4306	
E: >38µm		Anzahl/100ml	0	-	57	
F: >70µm		Anzahl/100ml	0	-	15	
Cleanliness class		SAE AS 4059	7A		> 12A	



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SAMPLE IMAGES (LABORATORY NUMBER: 1705837)



INFRARED SPECTRUM



BOTTLE AND CAP



Any questions?

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LAB.REPORT



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