

LAB REPORT

Unit id
PAPER MACHINE PM2
Component
Industrial transmission



Lab number: 1705848

Oil brand name
CLP 220

Oil quantity in system
170 l

Sample Report
Scope of Analysis: Paper Machine Set Gearbox

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.

Dipl.-Ing. Andy Böhme (CLS)



NORMAL

ANALYSIS RESULTS			Current sample	Previous samples →			
Lab number			1705848	1705849	1705850	1705851	
SAMPLE RATING			✓	✓	✓	✓	
Date of examination			02.10.2025	14.04.2025	30.12.2024	02.08.2024	
Date of sample taken			28.09.2025	05.04.2025	27.12.2024	27.07.2024	
Date of last oil change			10.05.2023	10.05.2023	10.05.2023	10.05.2023	
Top-up since change			6 l	-	10 l	1 l	
Operating time since change			28 M	23 M	19 M	14 M	
Total operating time			-	23 M	19 M	14 M	
Oil changed			no	no	no	no	
WEAR							
Iron	Fe	mg/kg	1	1	2	0	
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	0	0	0	0	
Lead	Pb	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	0	0	1	0	
Potassium	K	mg/kg	1	0	1	0	
Sodium	Na	mg/kg	0	0	1	0	
Lithium	Li	mg/kg	1	-	-	-	
Water K. F.		ppm	113	100	94	137	
OIL CONDITION							
Viscosity at 40 °C		mm ² /s	227.72	225.31	224.93	228.30	
Viscosity at 100 °C		mm ² /s	19.56	19.28	19.18	19.46	
Viscosity index		-	98	97	96	97	
Oxidation		A/cm	1	1	1	1	
Oxidation index		-	< 5	5	-	10	
IR index		-	99.58	99.70	99.38	99.78	

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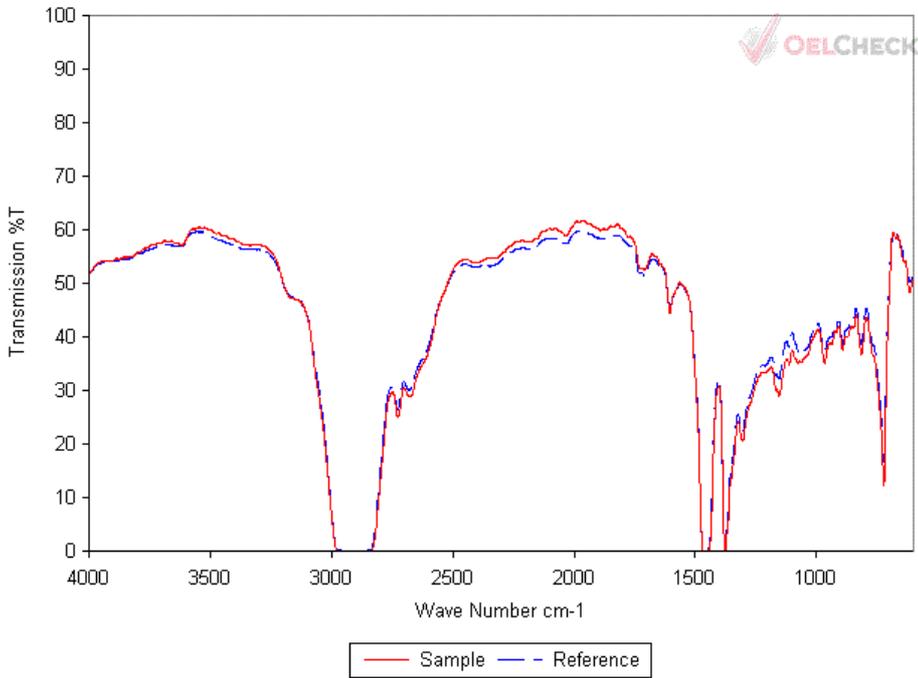
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ADDITIVES							
Calcium	Ca	mg/kg	0	0	2	0	
Magnesium	Mg	mg/kg	0	1	0	1	
Boron	B	mg/kg	20	23	24	30	
Zinc	Zn	mg/kg	0	1	9	0	
Phosphorus	P	mg/kg	361	333	323	336	
Barium	Ba	mg/kg	0	0	0	0	
Molybdenum	Mo	mg/kg	0	0	2	0	
Sulphur	S	Gew.-%	1.16	0.98	0.97	1.03	
ADDITIONAL TESTS							
AN / NN		mgKOH/g	0.73	0.76	0.78	0.74	
Cleanliness class		ISO 4406	20/16/11	21/18/11	21/19/15	21/18/13	
A: >4µm = ISO >4µm		Anzahl/100ml	681675	1314853	1597468	1173837	
B: >6µm = ISO >6µm		Anzahl/100ml	48197	141034	294118	176984	
C: >14µm = ISO >14µm		Anzahl/100ml	1946	1180	19459	7772	
D: >21µm		Anzahl/100ml	339	241	5716	1765	
E: >38µm		Anzahl/100ml	0	32	342	166	
F: >70µm		Anzahl/100ml	0	0	51	24	
Cleanliness class		SAE AS 4059	10A	11A	11A	11A	



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SAMPLE IMAGES (LABORATORY NUMBER: 1705848)



INFRARED SPECTRUM



BOTTLE AND CAP



Any questions?

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LAB.REPORT



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