

Unit ID **Paper machine PM2**  
 Component **Circulating lubrication**  
 Current sample number **1705837**



OELCHECK GmbH · Kerschelweg 28 · 83098 Brannenburg

Sample from: **Zentralölschmierung**  
 Oil/grease brand name: **PM ISO VG 220**  
 Oil quantity: **8000 l**

Example report  
 Analysis scope: Paper machine kit Recirculating lubrication

### 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. Please observe further changes with the next sample. 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



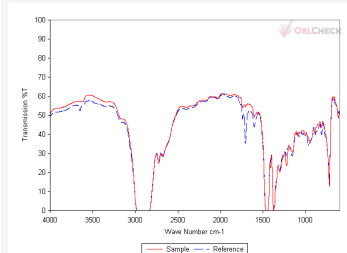
**normal**

ANALYSIS RESULTS			Current sample	Previous samples		
LAB NUMBER			1705837	1705838	1705839	
SAMPLE RATING						
Date tested			22.03.2024	09.06.2022	02.12.2021	
Sample taken on			20.03.2024	07.06.2022	25.11.2021	
Last oil change on			16.07.2020	16.07.2020	16.07.2020	
Refil volume	l		1400	-	200	
Oil in use/relubrication interval	M		43	22	15	
Total operating time	M		43	22	15	
Oil changed			-	no	no	
<b>WEAR</b>						
Iron	Fe	mg/kg	1	2	0	
Chrom	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	
<b>CONTAMINATION</b>						
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	149632	195	
<b>OIL CONDITION</b>						
Viscosity at 40°C	mm²/s		211.49	241.96	209.37	
Viscosity at 100°C	mm²/s		19.21	n/a	18.90	
Viscosity index	-		102	n/a	101	
Oxidation	A/cm		1	4	1	
IR index	-		-	-	95.03	
<b>ADDITIVES</b>						
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	

### Bottle and cap



### Infrared Spectrum



# LAB REPORT

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Sample from: **Zentralölschmierung**  
 Oil/grease brand name: **PM ISO VG 220**  
 Oil quantity: **8000 l**

Example report  
 Analysis scope: Paper machine kit Recirculating lubrication

ANALYSIS RESULTS		Current sample	Previous samples		
LAB NUMBER		1705837	1705838	1705839	
SAMPLE RATING		✔	! (red)	i (yellow)	
Date tested		<b>22.03.2024</b>	09.06.2022	02.12.2021	
Sample taken on		<b>20.03.2024</b>	07.06.2022	25.11.2021	
Last oil change on		<b>16.07.2020</b>	16.07.2020	16.07.2020	
Refil volume	I	<b>1400</b>	-	200	
Oil in use/relubrication interval	M	<b>43</b>	22	15	
Total operating time	M	<b>43</b>	22	15	
Oil changed		-	no	no	
ADDITIONAL TESTS					
AN / NN	mgKOH/g	<b>0.16</b>	0.71	0.14	
Cleanliness class	ISO 4406	<b>17/15/12</b>	-	24/23/15	
A: >4µm = ISO >4µm	Particles/100ml	<b>73999</b>	-	14344075	
B: >6µm = ISO >6µm	Particles/100ml	<b>24777</b>	-	4825921	
C: >14µm = ISO >14µm	Particles/100ml	<b>2321</b>	-	23745	
D: >21µm	Particles/100ml	<b>494</b>	-	4306	
E: >38µm	Particles/100ml	<b>0</b>	-	57	
F: >70µm	Particles/100ml	<b>0</b>	-	15	
Cleanliness class	SAE AS 4059	<b>7A</b>	-	> 12A	

