

# LAB REPORT

Unit id  
**TURBOCOMPRESSOR**  
Component  
**lubricating oil**



Lab number: 1700772

Machine type  
**Turbocompressor**

Manufacturer  
**Conpacksys-Loher**

Oil brand name  
**OMV turb TD 32**

Oil quantity in system  
**2000 l**

Sample report  
Scope of analysis: Analysis kit 3

Wear metals are only present in negligible concentration. Therefore, hardly any abrasive or corrosive wear is evident. We cannot detect any unusual oil oxidation. If no oil change has been performed yet, continued use of the oil would be possible under similar operating conditions while maintaining routine maintenance work. I advise you: Send us the next sample at your next maintenance or on the occasion of the routine inspection to observe the trend behavior.



**NORMAL**

Dipl.-Ing. Stefan Mitterer

ANALYSIS RESULTS			Current sample	Previous samples →			
Lab number			1700772	1700773	1700774	1700775	
SAMPLE RATING							
Date of examination			23.06.2025	16.12.2024	11.04.2024	13.12.2023	
Date of sample taken			15.06.2025	08.12.2024	01.04.2024	06.12.2023	
Date of last oil change			17.11.2023	17.11.2023	17.11.2023	17.11.2023	
Top-up since change			600 l	350 l	200 l	0 l	
Operating time since change			12850 h	9200 h	3500 h	300 h	
Total operating time			12850 h	9200 h	3500 h	300 h	
Oil changed			no	no	no	no	
<b>WEAR</b>							
Iron	Fe	mg/kg	0	1	0	0	
Chrome	Cr	mg/kg	0	0	0	0	
Tin	Sn	mg/kg	0	0	0	0	
Aluminum	Al	mg/kg	0	1	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	
Molybdenum	Mo	mg/kg	0	0	0	0	
PQ index	-	-	< 25	< 25	< 25	< 25	
<b>CONTAMINATION</b>							
Silicon	Si	mg/kg	0	0	0	0	
Potassium	K	mg/kg	1	0	0	0	
Sodium	Na	mg/kg	0	2	0	3	
Water K. F.		ppm	< 30	< 30	< 30	87	
<b>OIL CONDITION</b>							
Viscosity at 40 °C		mm <sup>2</sup> /s	31.44	31.78	31.52	30.93	
Viscosity at 100 °C		mm <sup>2</sup> /s	5.26	5.26	5.20	5.25	
Viscosity index		-	97	94	92	100	
Oxidation		A/cm	2	2	2	2	
IR index		-	99.72	99.66	99.74	99.87	
Color		Farbzahl	0.5	1.0	0.5	1.0	

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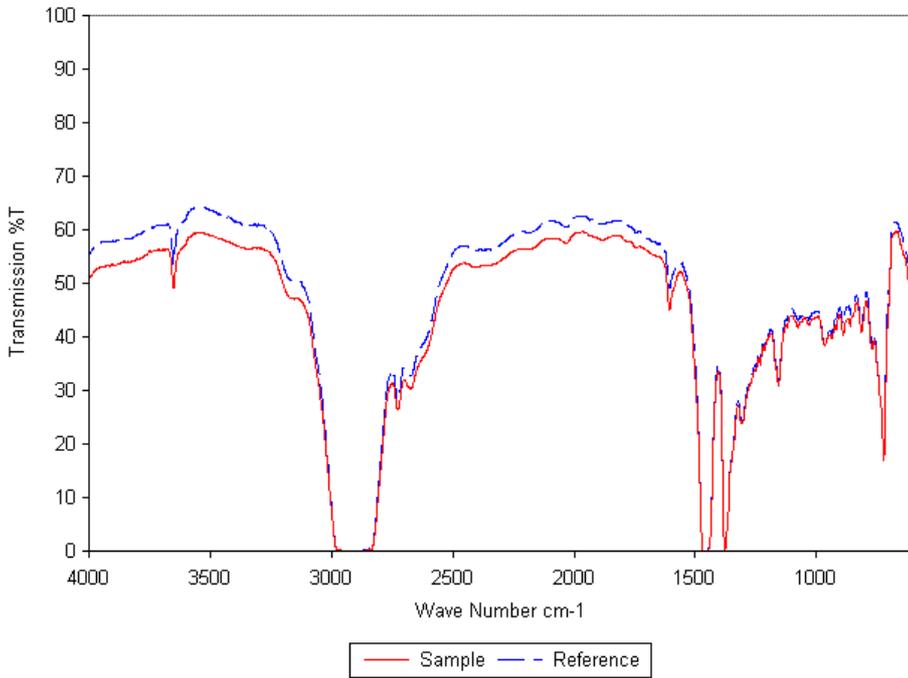
ANALYSIS RESULTS (...)			Current sample	Previous samples →			
Lab number			<b>1700772</b>	1700773	1700774	1700775	
SAMPLE RATING			✓	ⓘ	✓	✓	
Date of examination			<b>23.06.2025</b>	16.12.2024	11.04.2024	13.12.2023	
Date of sample taken			<b>15.06.2025</b>	08.12.2024	01.04.2024	06.12.2023	
ADDITIVES							
Calcium	Ca	mg/kg	<b>3</b>	0	1	0	
Magnesium	Mg	mg/kg	<b>0</b>	0	0	0	
Boron	B	mg/kg	<b>0</b>	0	0	0	
Zinc	Zn	mg/kg	<b>6</b>	1	2	0	
Phosphorus	P	mg/kg	<b>4</b>	5	0	4	
Barium	Ba	mg/kg	<b>0</b>	0	0	0	
Sulphur	S	mg/kg	<b>888</b>	868	823	799	
ADDITIONAL TESTS							
AN / NN		mgKOH/g	<b>&lt; 0.10</b>	< 0.10	< 0.10	< 0.10	



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## SAMPLE IMAGES (LABORATORY NUMBER: 1700772)



INFRARED SPECTRUM



BOTTLE AND CAP



**Any questions?**

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