

LAB REPORT

Unit id
TURBINE 2T
Component
Turbine



Lab number: 1705829

Oil brand name
Turbine Oil ISO VG 46

Oil quantity in system
850 l

Sample Report
Scope of Analysis: Turbine Set 2

No wear metals are detectable in the sample. We cannot detect any unusual oil oxidation. If an oil change has not yet been performed, continued use of the oil under similar operating conditions while maintaining routine maintenance would be possible. I recommend: Send us the next sample at your next service or during the regular inspection to monitor the trend behavior.



NORMAL

Dipl.-Ing. Andy Böhme (CLS)

ANALYSIS RESULTS			Current sample	Previous samples →			
Lab number			1705829	1705830	1705831	1705832	
SAMPLE RATING			✓	✓	✓	✓	
Date of examination			29.09.2025	18.11.2024	02.02.2024	10.11.2022	
Date of sample taken			17.09.2025	11.11.2024	24.01.2024	02.11.2022	
Date of last oil change			-	-	-	-	
Top-up since change			-	0	-	-	
Operating time since change			-	-	-	30462 h	
Total operating time			46206 h	38526 h	-	-	
Oil changed			-	-	-	no	
WEAR							
Iron	Fe	mg/kg	0	0	0	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	
Molybdenum	Mo	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	1	0	1	0	
Potassium	K	mg/kg	1	0	0	0	
Sodium	Na	mg/kg	0	0	0	0	
Lithium	Li	mg/kg	0	0	0	0	
Water		%	< 0.10	< 0.10	< 0.10	< 0.10	
OIL CONDITION							
Viscosity at 40 °C		mm ² /s	48.84	48.72	48.76	48.22	
Viscosity at 100 °C		mm ² /s	7.85	7.89	7.89	7.84	
Viscosity index		-	129	131	131	131	
Oxidation		A/cm	1	1	1	1	
Oxidation index		-	< 5	-	< 5	-	
IR index		-	99.89	99.41	99.61	99.91	
Color		Farbzahl	3.5	3.0	2.5	2.5	

LAB REPORT

Unit id
TURBINE 2T
Component
Turbine



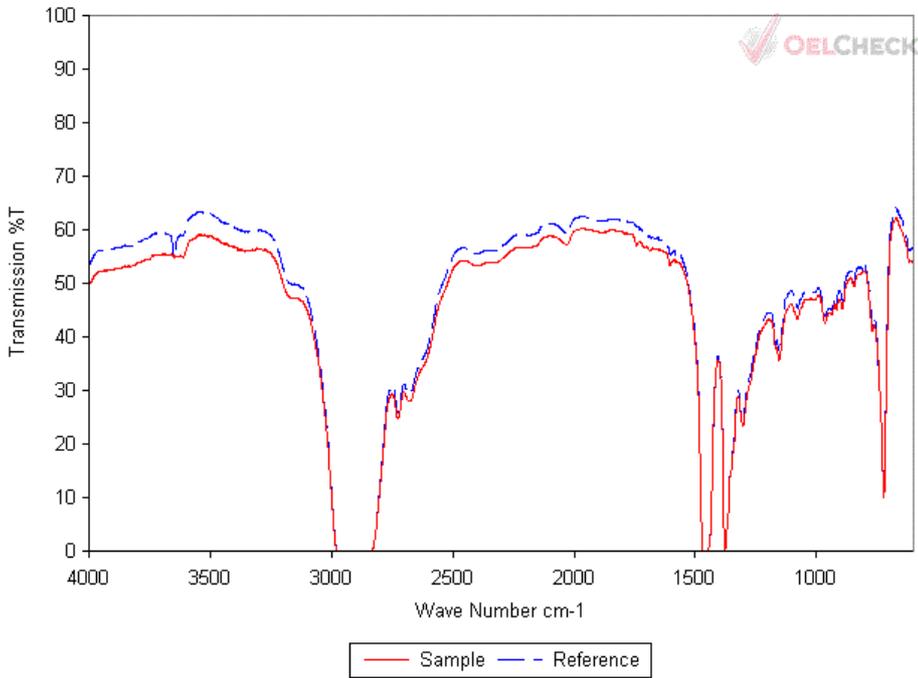
ANALYSIS RESULTS (...)			Current sample	Previous samples →			
Lab number			1705829	1705830	1705831	1705832	
SAMPLE RATING			✓	✓	✓	✓	
Date of examination			29.09.2025	18.11.2024	02.02.2024	10.11.2022	
Date of sample taken			17.09.2025	11.11.2024	24.01.2024	02.11.2022	
ADDITIVES							
Calcium	Ca	mg/kg	0	0	2	0	
Magnesium	Mg	mg/kg	0	0	0	0	
Boron	B	mg/kg	0	0	0	0	
Zinc	Zn	mg/kg	0	0	0	0	
Phosphorus	P	mg/kg	8	5	7	6	
Barium	Ba	mg/kg	0	0	0	0	
Sulphur	S	mg/kg	115	109	116	107	
ADDITIONAL TESTS							
AN / NN		mgKOH/g	< 0.10	< 0.10	< 0.10	< 0.10	
Phenolic antioxidant FT-IR		%	24.4	30.4	27.0	29.9	



LAB REPORT

Unit id
TURBINE 2T
Component
Turbine

SAMPLE IMAGES (LABORATORY NUMBER: 1705829)



INFRARED SPECTRUM



BOTTLE AND CAP



Any questions?

Phone: +49 8034 9047-210
ta@oelcheck.de

LAB.REPORT



- View all laboratory reports at any time - Have them translated directly if required
- Flexible search and filter functions for quick results
- High-resolution images and graphics for optimal detail analysis
- Convenient creation of meaningful trend graphs



[www.lab.report/
sample/1705829](http://www.lab.report/sample/1705829)