

LAB REPORT

Unit id
GAS TURBINE
Component
lubricating oil



Lab number: 1700834

Machine type
Gas turbine

Manufacturer
ABC

Oil brand name
Mobil DTE 832

Oil quantity in system
4300 l

Sample Report
Scope of Analysis: Turbine Set 7

No wear metals are detectable in the sample. Viscosity and additive levels are within the normal range. The air release behavior ARB is at fresh oil level. The foam behavior is at fresh oil level. If no oil change has been carried out yet, continued use of the oil would be possible under similar operating conditions while maintaining routine maintenance work. I recommend: Send us the next sample at your next maintenance or during the regular inspection to monitor the trend behavior.

Dipl.-Ing. Stefan Mitterer



NORMAL

ANALYSIS RESULTS		Current sample	Previous samples →				
Lab number		1700834	1700835				
SAMPLE RATING		✓	✓				
Date of examination		31.10.2025	25.11.2024				
Date of sample taken		27.10.2025	14.11.2024				
Date of last oil change		24.07.2025	01.10.2019				
Top-up since change		200 l	2400 l				
Operating time since change		665 h	32856 h				
Total operating time		38211 h	32856 h				
Oil changed		no	no				
WEAR							
Iron	Fe	mg/kg	0	0			
Chrome	Cr	mg/kg	0	0			
Tin	Sn	mg/kg	0	0			
Aluminum	Al	mg/kg	0	0			
Nickel	Ni	mg/kg	0	0			
Copper	Cu	mg/kg	0	0			
Lead	Pb	mg/kg	0	0			
Molybdenum	Mo	mg/kg	0	0			
PQ index	-		< 25	< 25			
CONTAMINATION							
Silicon	Si	mg/kg	0	0			
Potassium	K	mg/kg	0	0			
Sodium	Na	mg/kg	0	0			
Lithium	Li	mg/kg	0	0			
Water K. F.		ppm	85	91			
OIL CONDITION							
Viscosity at 40 °C	mm ² /s		32.46	32.05			
Viscosity at 100 °C	mm ² /s		5.80	5.76			
Viscosity index	-		122	122			
Oxidation	A/cm		1	1			
IR index	-		99.25	99.10			
Color	Farbzahl		1.0	4.0			

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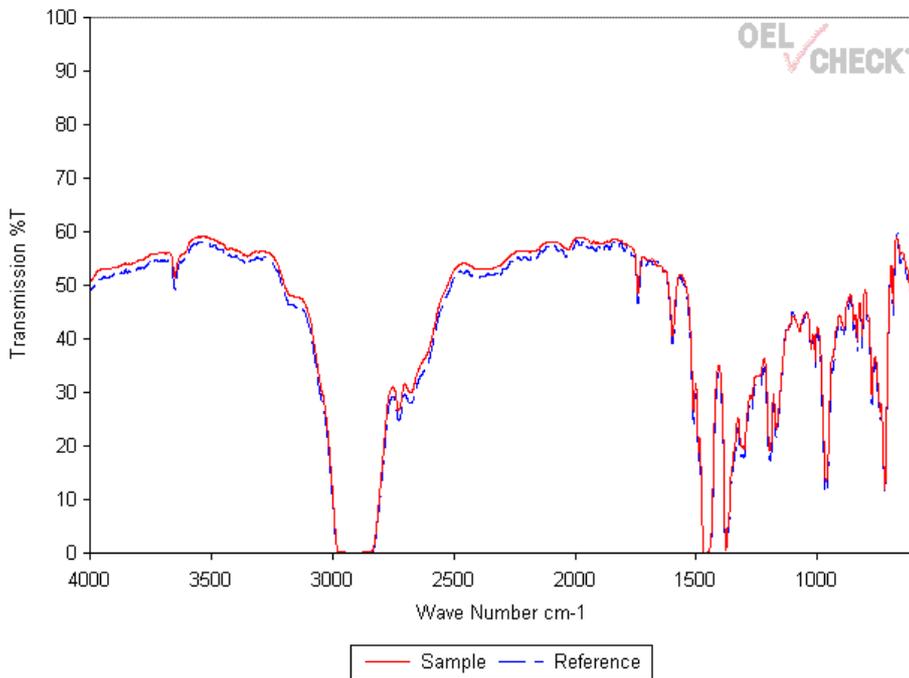
ANALYSIS RESULTS (...)			Current sample	Previous samples →				
Lab number			1700834	1700835				
SAMPLE RATING			✓	✓				
Date of examination			31.10.2025	25.11.2024				
Date of sample taken			27.10.2025	14.11.2024				
ADDITIVES								
Calcium	Ca	mg/kg	2	0				
Magnesium	Mg	mg/kg	0	0				
Boron	B	mg/kg	1	0				
Zinc	Zn	mg/kg	1	0				
Phosphorus	P	mg/kg	1099	1155				
Barium	Ba	mg/kg	0	0				
Sulphur	S	mg/kg	56	140				
ADDITIONAL TESTS								
AN / NN	mgKOH/g		< 0.10	0.12				
Air-release properties	min		2.4	2.8				
Foam test seq. I	ml/ml		140/0	220/0				
Cleanliness class	ISO 4406		15/13/10	16/14/10				
>4µm (ISO)	Anzahl/100ml		30213	61254				
>6µm (ISO)	Anzahl/100ml		7547	14587				
>14µm (ISO)	Anzahl/100ml		889	888				
Antioxidant 1 - RULER	%		91.3	58.1				
Antioxidant 2 - RULER	%		84.7	49.8				
Phenolic antioxidant FT-IR	%		94.1	66.0				



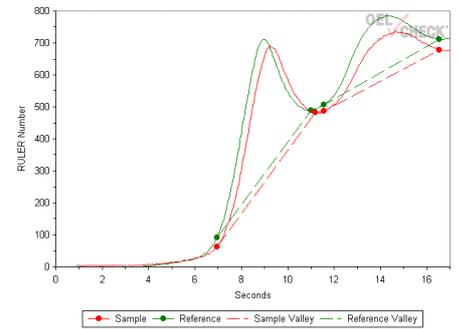
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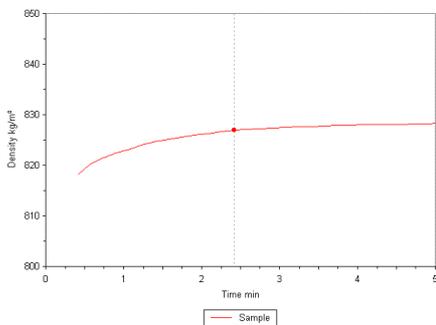
SAMPLE IMAGES (LABORATORY NUMBER: 1700834)



INFRARED SPECTRUM



RULER DIAGRAM



AIR-RELEASE PROPERTIES



BOTTLE AND CAP



Any questions?

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LAB.REPORT



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