

LAB REPORT

Unit id
AUTOCLAVE
Component
Heat transfer oil

Lab number: 1700707

Machine type
Thermal oil system

Manufacturer
AEU

Oil brand name
Mobiltherm 603

Oil quantity in system
250 l

Sample report
Scope of analysis: Analysis kit 3

No wear metals are detectable in the sample. AN (Acid Number) higher than expected, but not yet critical. Possible cause: Oxidation or oil aging. The flash point has decreased compared to fresh oil. Probable cause: High operating temperatures at which volatile crack products are formed. You should monitor further changes using the next analysis. Please send us another sample at your next inspection, but no later than after 6 months.

Dipl.-Ing. Stefan Mitterer



CAUTION

ANALYSIS RESULTS		Current sample	
Lab number		1700707	
SAMPLE RATING			
Date of examination		10.06.2025	
Date of sample taken		04.06.2025	
Date of last oil change		12.02.2025	
Top-up since change		0 l	
Operating time since change		2360 h	
Total operating time		26690 h	
Oil changed		no	
WEAR			
Iron	Fe	mg/kg	0
Chrome	Cr	mg/kg	0
Tin	Sn	mg/kg	0
Aluminum	Al	mg/kg	0
Nickel	Ni	mg/kg	0
Copper	Cu	mg/kg	0
Lead	Pb	mg/kg	0
Molybdenum	Mo	mg/kg	0
PQ index	-		< 25
CONTAMINATION			
Silicon	Si	mg/kg	0
Potassium	K	mg/kg	0
Sodium	Na	mg/kg	1
Water		%	< 0.10
OIL CONDITION			
Viscosity at 40 °C		mm ² /s	22.12
Viscosity at 100 °C		mm ² /s	4.36
Viscosity index		-	104
Oxidation		A/cm	6
IR index		-	99.54

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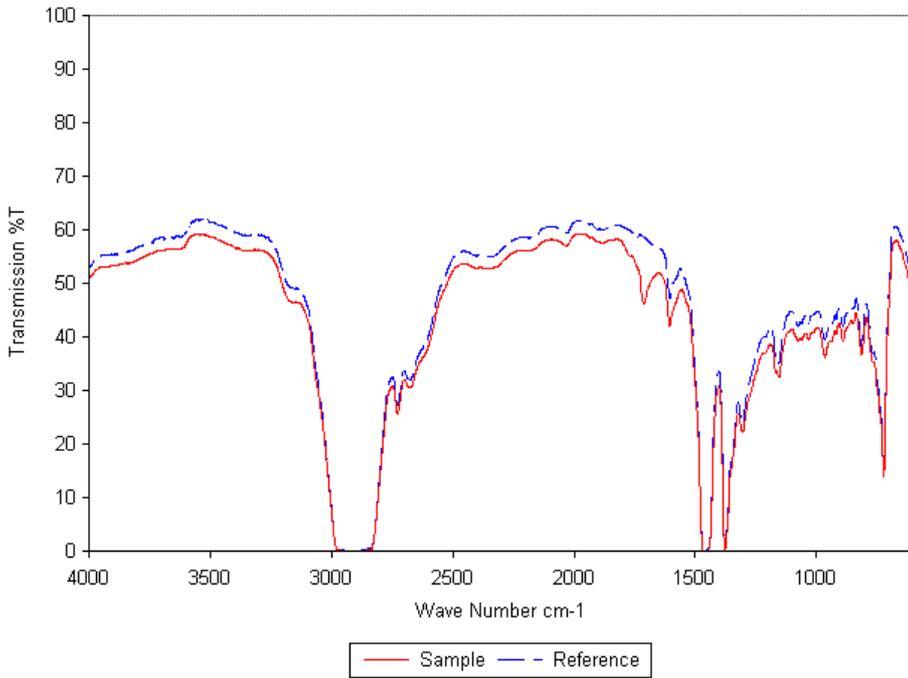
ANALYSIS RESULTS (...)		Current sample					
Lab number		1700707					
SAMPLE RATING		i					
Date of examination		10.06.2025					
Date of sample taken		04.06.2025					
ADDITIVES							
Calcium	Ca	mg/kg	4				
Magnesium	Mg	mg/kg	0				
Boron	B	mg/kg	0				
Zinc	Zn	mg/kg	6				
Phosphorus	P	mg/kg	4				
Barium	Ba	mg/kg	0				
Sulphur	S	mg/kg	5551				
ADDITIONAL TESTS							
AN / NN		mgKOH/g	0.49				
Flash point closed	S...	°C	161				



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SAMPLE IMAGES (LABORATORY NUMBER: 1700707)



INFRARED SPECTRUM



BOTTLE AND CAP



Any questions?

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LAB.REPORT



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