

Unit ID **Autoclave**  
Component **Heat transfer oil**  
Lab number **1700707**

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Example report  
Analysis scope: Analysis-Kit 3

Machine type: **Thermalölanlage**  
Manufacturer: **AEU**  
Oil brand name: **Mobiltherm 603**  
Oil quantity in system: **250 l**

Diagnosis for the current laboratory values


No wear metals present in the sample. AN (neutralization number) higher than expected but not yet critical. Possible reason: oxidation or oil aging. The flash point is lower than the flash point of the fresh oil. Probable cause: high operating temperatures, which cause the formation of volatile crack products. Please observe further changes with the next sample. Please send us another sample on the occasion of your next inspection, but no later than six months from now.

Dipl.-Ing. Stefan Mitterer

Sample Rating



Caution

ANALYSIS RESULTS			Current sample	Previous samples	
LAB NUMBER			1700707		
SAMPLE RATING					
Date tested			09.06.2023		
Date of sample taken			04.06.2023		
Date of last oil change			12.02.2023		
Top-up since change	l		0		
Operating time since change	h		2360		
Total operating time	h		26690		
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	mm²/s		22.12		
Viscosity at 100°C	mm²/s		4.36		
Viscosity index	-		104		
Oxidation	A/cm		6		
IR index	-		99.54		
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	SSCC	°C	161		

Bottle and cap



Infrared Spectrum

