

LAB REPORT

Unit id
FILM PRESS
 Component
Heat transfer oil



Lab number: 1700854

Machine type
Film press

Manufacturer
HTT

Oil brand name
Shell Thermia B

Oil quantity in system
6000 l

Sample report
 Scope of analysis: Analysis kit 5

Only minor deviations are detectable compared to the previous sample. The flash point has decreased compared to fresh oil. Probable cause: High temperatures at which volatile crack products are formed. However, the value is stable in the trend. The coke residue (DIN method according to Conradson) is slightly elevated. AN ("acid" or neutralization number) has increased slightly. You should monitor further changes based on the next analysis. Please send us another sample at your next inspection, but no later than after 6 months.



CAUTION

Dipl.-Ing. Stefan Mitterer

ANALYSIS RESULTS		Current sample	Previous samples →	
Lab number		1700854	1700855	
SAMPLE RATING		i	i	
Date of examination		20.10.2025	24.02.2025	
Date of sample taken		12.10.2025	16.02.2025	
Date of last oil change		18.10.2021	18.10.2021	
Top-up since change		1200 l	1000 l	
Operating time since change		4 a	3.3 a	
Total operating time		16 a	15.3 a	
Oil changed		no	no	
WEAR				
Iron	Fe	mg/kg	5	7
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	32
CONTAMINATION				
Silicon	Si	mg/kg	0	0
Potassium	K	mg/kg	0	0
Sodium	Na	mg/kg	0	0
Water		%	< 0.10	< 0.10
OIL CONDITION				
Viscosity at 40 °C		mm ² /s	24.91	24.71
Viscosity at 100 °C		mm ² /s	4.68	4.63
Viscosity index		-	104	102
Oxidation		A/cm	4	4
IR index		-	99.68	99.63

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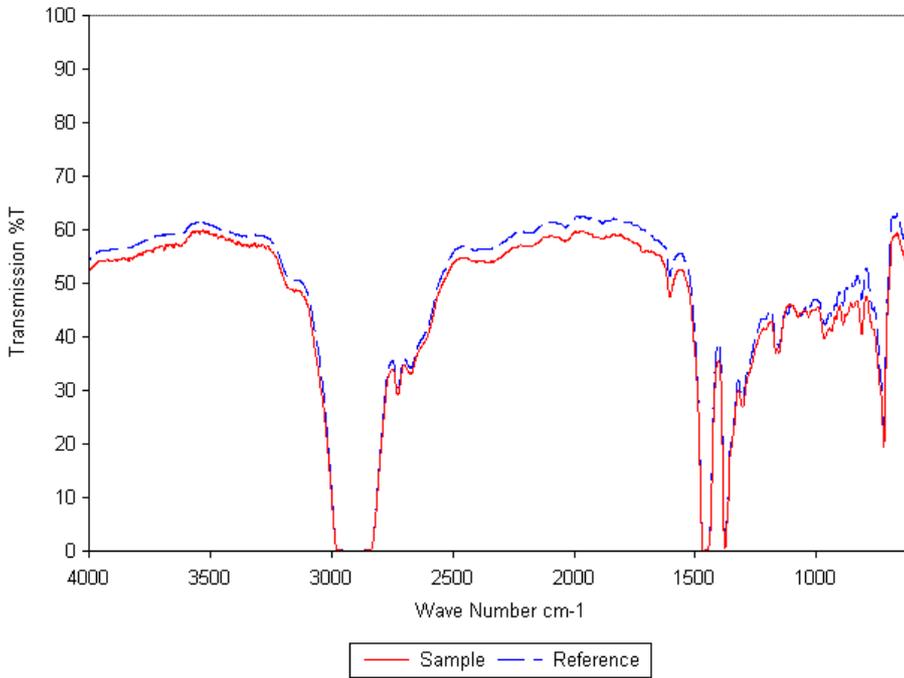
ANALYSIS RESULTS (...)			Current sample	Previous samples →				
Lab number			1700854	1700855				
SAMPLE RATING			i	i				
Date of examination			20.10.2025	24.02.2025				
Date of sample taken			12.10.2025	16.02.2025				
ADDITIVES								
Calcium	Ca	mg/kg	0	0				
Magnesium	Mg	mg/kg	0	0				
Boron	B	mg/kg	0	0				
Zinc	Zn	mg/kg	0	0				
Phosphorus	P	mg/kg	0	0				
Barium	Ba	mg/kg	0	0				
Sulphur	S	mg/kg	1074	1042				
ADDITIONAL TESTS								
AN / NN		mgKOH/g	0.25	0.19				
Conradson Carbon Residue		Gew.-%	0.21	0.18				
Flash point closed	S...	°C	144	142				



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SAMPLE IMAGES (LABORATORY NUMBER: 1700854)



INFRARED SPECTRUM



BOTTLE AND CAP



Any questions?

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LAB.REPORT



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sample/1700854](http://www.lab.report/sample/1700854)