

Unit ID **Film press**
 Component **Heat transfer oil**
 Current sample number **1700854**

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Machine type: **Film press**
 Manufacturer: **HTT**
 Oil brand name: **Shell Thermia B**
 Oil quantity in system: **6000 l**

Example report
 Analysis scope: Analysis-Kit 5

Diagnosis for the current laboratory values

There is no significant change in comparison to the previous sample. The flash point has decreased compared to the fresh oil. Probable cause: high temperatures at which highly volatile cracking products are formed. But the trendline of this value is stable. The carbon residue (acc. to DIN/Conradson method) is slightly elevated. AN (acid/neutralization number) slightly increased. 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			1700854	1700855	
SAMPLE RATING					
Date tested			18.10.2023	22.02.2023	
Date of sample taken			12.10.2023	16.02.2023	
Date of last oil change			18.10.2019	18.10.2019	
Top-up since change	l		1200	1000	
Operating time since change	a		4	3,3	
Total operating time	a		16	15,3	
Oil changed			no	no	
WEAR					
Iron	Fe	mg/kg	5	7	
Chrom	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	mm²/s		24.91	24.71	
Viscosity at 100°C	mm²/s		4.68	4.63	
Viscosity index	-		104	102	
Oxidation	A/cm		4	4	
IR index	-		99.68	99.63	
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	% Wt.		0.21	0.18	
Flash point closed	SSCC °C		144	142	

