LAB REPORT

OELCHECK since 1991

Unit ID **Film press**

Component Heat transfer oil

Lab number 1700854

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Example report
Analysis scope: Analysis-Kit 5

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

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

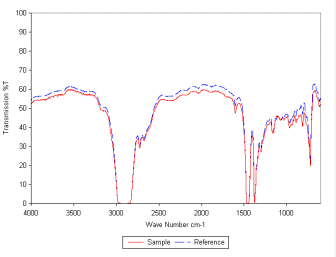
Sample Rating

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		
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	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		

Bottle and cap

Infrared Spectrum



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