LIEBHERR

CONSTRUCTION EQUIPMENT



Sample No: LHMC119914
Oil Type: LIEBHERR HYD

5					
SAMP	LE INFOR <i>i</i>	MATION			
Sample Number		LHMC119914	LHMC119935	LHMC119964	
Sample Date		03 May 2023	02 May 2023	01 May 2023	
Machine Hours		176	176	176	
Oil Hours		176	176	0	
Oil Changed		N/A	N/A	N/A	
Sample Status		SEVERE	ABNORMAL	ABNORMAL	
OILCO	NDITION				
Visc @ 40°C	cSt	62.0	45.3	47.8	
Acid Number (AN)	mg KOH/g	2.53	O 1.35	1.34	
CONT	AMINATIO	ON			
Water	%	22.9			

CONTAMINATION					
Water	%	22.9			
Particles >4µm			O 25412	O 39593	
Particles >6µm			O 761	<u>5239</u>	
Particles >14µm			O 7	O 279	
ISO 4406:1999 (c)			22/17/10	22/20/15	
Silicon	ppm	82	3	3	
Sodium	ppm	8	O 1	1	
Potassium	ppm	9	O 2	O 2	

O WE					
₩ WEA	AR META	LS			
Iron	ppm	443	O 4	4	
Copper	ppm	61	O 17	17	
Lead	ppm	8	5	4	
Tin	ppm	5	O <1	O <1	
Aluminum	ppm	<u> </u>	O <1	O <1	
Chromium	ppm	9	O <1	O <1	
Molybdenum	ppm	<1	0	0	
Nickel	ppm	1	O <1	O <1	
Titanium	ppm	<1	0	0	
Silver	ppm	<1	0	0	
Manganese	ppm	15	<1	<1	
Vanadium	ppm	0	0	0	

ADDITIVES						
Calcium	ppm	7204	1027	1031		
Magnesium	ppm	35	3	3		
Zinc	ppm	934	755	752		
Phosphorus	ppm	1035	566	559		
Barium	ppm	0	0	0		
Boron	ppm	13	0	0		



TRACEY ROAD EQUIPMENT 6803 MANLIUS CENTER RD EAST SYRACUSE, NY US 13057 Contact: SHAWN RYDER

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Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. The iron level is severe. Excessive free water present. There is a high concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate amount of visible silt present in the sample. The oil viscosity is higher than normal. The AN level is at the topend of the recommended limit. The oil is no longer serviceable due to the presence of contaminants.

Depot: TRAEAS
Unique No: 10460210
Signed: Jonathan Hester
Report Date: 11 May 2023

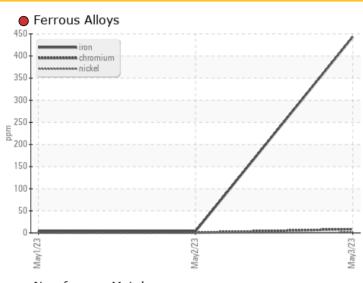
LIEBHERR

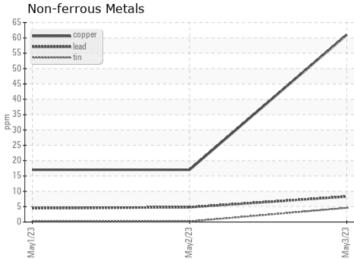
CONSTRUCTION EQUIPMENT

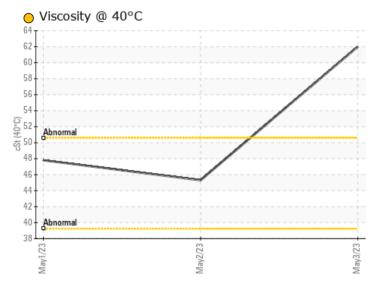


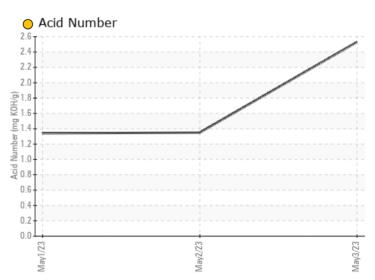


GRAPHS









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