LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH3OM 117414-1253 - Hydraulic System

Sample No: LH0272892

Oil Type: AW HYDRAULIC OIL ISO 46

SAMPLEINF	LH0272892 LH0235760 LH0217603 LHMC160751 10 Jan 2024 26 Sep 2023 14 Jul 2022 03 Mar 2022 8285 0 0 4332 0 0 4332			
Sample Number	LH0272892	LH0235760	LH0217603	LHMC160751
Sample Date	10 Jan 2024	26 Sep 2023	14 Jul 2022	03 Mar 2022
Machine Hours	8285	0	0	4332
Oil Hours	0	0	0	4332
Oil Changed	Not Changd	N/A	N/A	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	ABNORMAL
A				

OIL CO	NDITION				
Visc @ 40°C	cSt	59.5	O 56.4	52.9	49.4
Acid Number (AN)	mg KOH/g	0.40	0.47	0.66	0.76

CONT	CONTAMINATION					
Water	%	NEG	0.071	NEG	NEG	
Particles >4µm		4365		27155	O 1978	
Particles >6µm		745		O 6381	465	
Particles >14µm		43		○ 352	○ 39	
ISO 4406:1999 (c)		19/17/13		22/20/16	18/16/12	
Silicon	ppm	2	O 2	1	02	
Sodium	ppm	() <1	O 0	O 0	O 0	
Potassium	ppm	0 <1	O <1	0	O 2	

(0)					
WEA	AR METAL	.S			
Iron	ppm	72	O 93	3 7	O 92
Copper	ppm	4	O 5	O 2	6
Lead	ppm	 <1	O <1	O <1	O 1
Tin	ppm	0	O 0	O <1	O <1
Aluminum	ppm	1	O 0	O	O 2
Chromium	ppm	2	O 2	O <1	O 2
Molybdenum	ppm	0	O <1	<1	O <1
Nickel	ppm	0	O 0	O 0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	() <1	O 2	<1	O 2
Vanadium	ppm	0	0	0	0

variadium	ppiii	U	U	U	O
ADI	DITIVES				
Calcium	ppm	143	O 158	○ 315	○ 860
Magnesium	ppm	56	48	9	O 12
Zinc	ppm	362	○ 366	198	O 615
Phosphorus	ppm	296	O 282	O 170	469
Barium	ppm	0	O 0	O	O
Boron	ppm	0	O 0	<1	O <1



SPARTAN RECYCLING 3071 HOWARD ST SPARTANBURG, SC US 29303

Contact: SERVICE MANAGER

T: F:

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

Depot:SPASPALHUnique No:10833948Signed:Jonathan HesterReport Date:19 Jan 2024

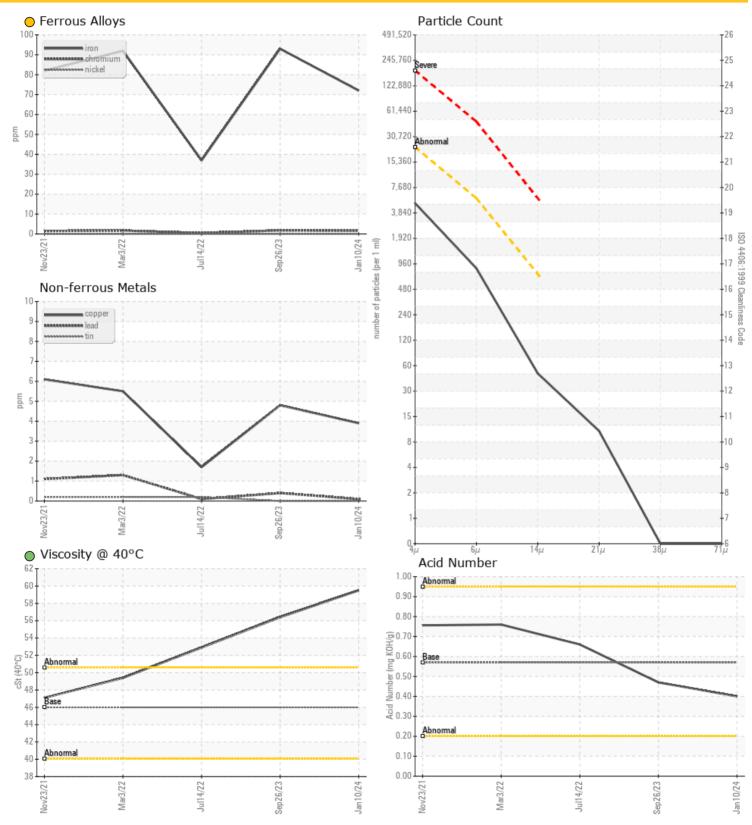
LIEBHERR

CONSTRUCTION EQUIPMENT





GRAPHS



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Contact/Location: SERVICE MANAGER ? - SPASPALH