

LIEBHERR LH50 1216-131051 - Hydraulic System

Sample No: LH0213093

ah.

Oil Type: LIEBHERR HYDRAULIC HVI

SAMPLE INFORMATION

Sample Number	LH0213093	LH0213023	LH0213107			
Sample Date	30 Aug 2023	25 Apr 2023	24 Jan 2023			
Machine Hours	9786	0	7995			
Oil Hours	0	0	0			
Oil Changed	Not Changd	Not Changd	Not Changd			
Sample Status	NORMAL	NORMAL	ATTENTION			

Visc @ 40°C
cSt
30.6 31.9
31.2
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Acid Number (AN)
mg KOH/g
0.39 0.35
0.35
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CONT	AMINATI	ON			
Particles >4µm		2275	0 7098	0 18498	
Particles >6µm		616	2207	0 5564	
Particles >14µm		4 3	201	0 399	
ISO 4406:1999 (c)		18/16/13	20/18/15	21/20/16	
Silicon	ppm	○ <1	○ <1	◯ <1	
Sodium	ppm	0	0	0	
Potassium	ppm	○ <1	◯ <1	◯ <1	

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WEA	IR META	LS			
Iron	ppm	3	2	0 4	
Copper	ppm	<mark></mark> <1	◯ <1	◯ <1	
Lead	ppm	○ <1	0	0	
Tin	ppm	0	0	0	
Aluminum	ppm	0	0	0	
Chromium	ppm	0	0	0	
Molybdenum	ppm	() <1	◯ <1	◯ <1	
Nickel	ppm	0	0	0	
Titanium	ppm	0	0	0	
Silver	ppm	0	0	0	
Manganese	ppm	0	0	0	
Vanadium	ppm	0	0	0	

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	IVES		
Calcium	ppm	6 1	65
Magnesium	ppm	04	04
Zinc	ppm	0 434	0 44

Calcium	ppm	6 1	65	0 79	
Magnesium	ppm	04	04	6	
Zinc	ppm	0 434	0 449	0 402	
Phosphorus	ppm	0 327	327	0 310	
Barium	ppm	02	0	○ <1	
Boron	ppm	0	0	0	



BOIINT 10633557 Don Baldridge 08 Sep 2023





BOISE WHITE PAPER

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Diagnosis

Resample at the next service interval to monitor.All 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

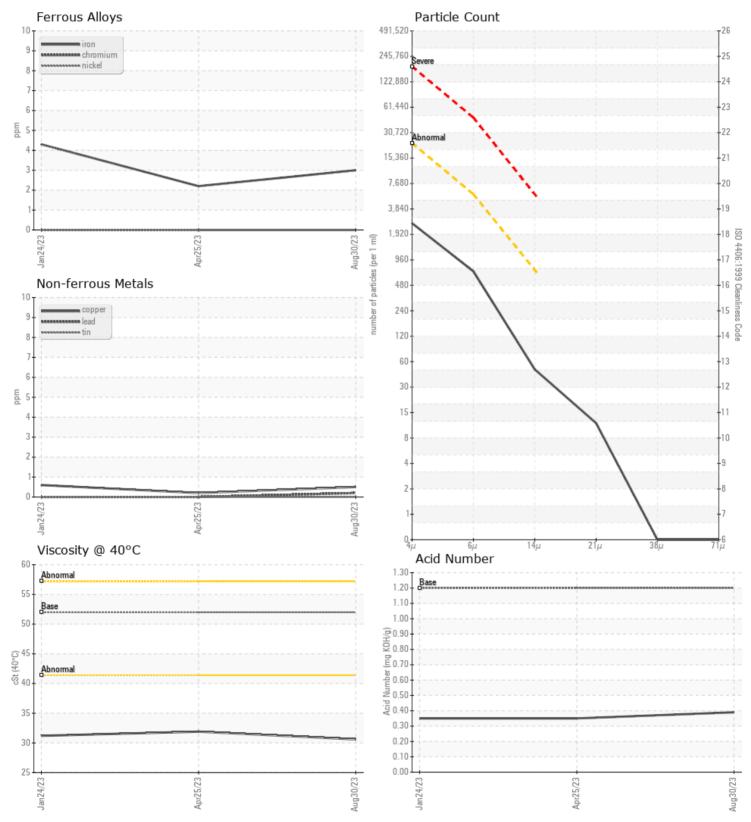
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GRAPHS

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