



## LIEBHERR A904 052442-1071 - Hydraulic System

Sample No: LH0268147

Oil Type: LIEBHERR HYDRAULIC HVI

### **SAMPLE INFORMATION**

Sample Number	LH0268147	LHMC133733	LHMC84194	LHMC84197
Sample Date	04 Mar 2024	09 May 2023	13 Dec 2017	13 Dec 2017
Machine Hours	14220	12694	4318	4318
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

<b>OIL CO</b>	<b>ONDITION</b>				
Visc @ 40°C	cSt	<b>43.6</b>	0 42.6	43.76	43.53
Acid Number (AN)	mg KOH/g	0.34	0.23	0.624	0.675

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	AMIRAI				
Water	%	NEG	NEG	NEG	NEG
Particles >4µm		<b>0</b> 43977	0 118132	9744	5774
Particles >6µm		0 1690	0 22419	948	○ 776
Particles >14µm		0 16	○ 372	37	◯ 39
ISO 4406:1999 (c)		23/18/11	24/22/16	20/17/12	20/17/12
Silicon	ppm	0 🔘	02	01	02
Sodium	ppm	<b>○</b> <1	0	3	3
Potassium	ppm	0 🔘	02	01	8

### WEAR METALS

Iron	ppm	0 11	27	0 11	0 11
Copper	ppm	<b>2</b>	8 🔾	0 10	0 10
Lead	ppm	0	◯ <1	01	02
Tin	ppm	0 ()	0	0	0
Aluminum	ppm	0 ()	0	○ <1	◯ <1
Chromium	ppm	0 14	0 21	○ 5	○ 5
Molybdenum	ppm	0 ()	0	0	0
Nickel	ppm	<b>○</b> <1	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0 (	○ <1	◯ <1	◯ <1
Vanadium	ppm	0	0	0	0

0	

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Calcium	ppm	0 29	21	◯ 740	761	
Magnesium	ppm	0 🔘	01	0 4	0 4	
Zinc	ppm	<b>410</b>	380	0 489	500	
Phosphorus	ppm	0 352	326	390	0 400	
Barium	ppm	0 🔘	0	0	0	
Boron	ppm	0 🔘	0	2	03	



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#### Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot:SCRHAMUnique No:10942790Signed:Don BaldridgeReport Date:28 Mar 2024

Report Id: SCRHAM [WUSCAR] 06128639 (Generated: 03/28/2024 14:44:53) Rev: 1

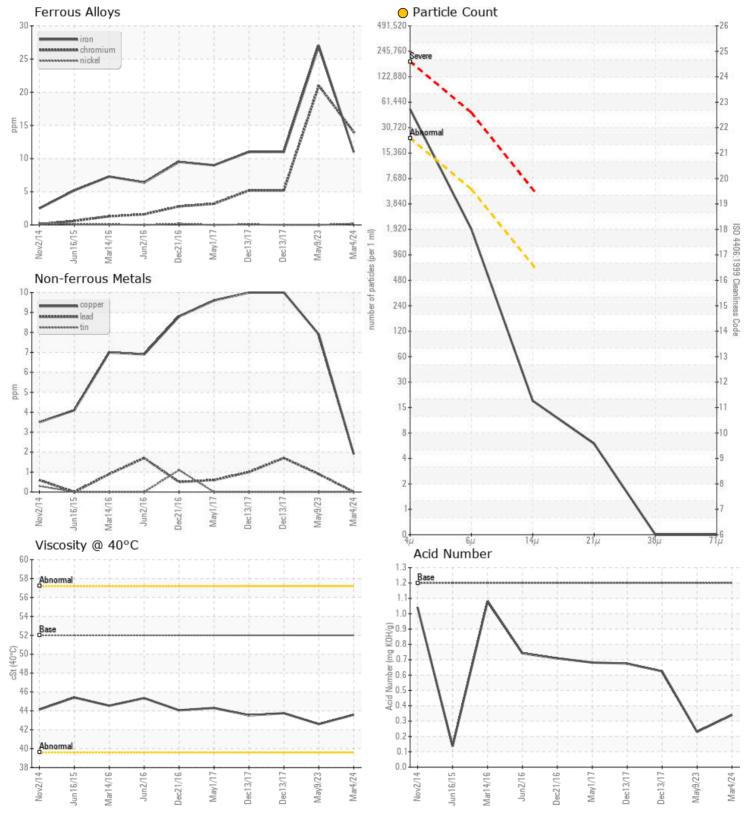
Contact/Location: RICK BARLAGE - SCRHAM





# GRAPHS

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Contact/Location: RICK BARLAGE - SCRHAM