



## LIEBHERR PR766027906-1681 - Hydraulic System

Sample No: LH0254473

Oil Type: AW HYDRAULIC OIL ISO 68

### **Sample Information**

LH0254473	LH0254551	LH0254256				
01 May 2024	03 Apr 2024	07 Mar 2024				
2148	1518	882				
2148	1518	882				
Not Changd	Not Changd	Not Changd				
ATTENTION	ATTENTION	ATTENTION				
Oil Condition						
0.440	0.44.0	0.45.0				
0 44.2	44.9	0 45.8				
l/g <b>1.72</b>	0 1.42	0 1.39				
	01 May 2024 2148 2148 Not Changd ATTENTION	01 May 2024 03 Apr 2024 2148 1518 2148 1518 Not Changd Not Changd ATTENTION ATTENTION	01 May 2024       03 Apr 2024       07 Mar 2024         2148       1518       882         2148       1518       882         Not Changd       Not Changd       Not Changd         ATTENTION       ATTENTION       ATTENTION			

Contamination					
Water	%	NEG	NEG	NEG	
Particles >4µm		0 11207	7895	O 6750	
Particles >6µm		2464	0 1524	0 1770	
Particles >14µm		0 111	59	0 108	
ISO 4406:1999 (c)		21/18/14	20/18/13	20/18/14	
Silicon	ppm	06	6	5	
Sodium	ppm	01	01	2	
Potassium	ppm	04	0 4	01	

## **Wear Metals**

Iron	ppm	04	04	2	
Copper	ppm	07	07	04	
Lead	ppm	01	2	○ <1	
Tin	ppm	<mark>○</mark> <1	0 1	○ <1	
Aluminum	ppm	02	0 1	○ <1	
Chromium	ppm	<b>○</b> <1	○ <1	0	
Molybdenum	ppm	0	○ <1	0	
Nickel	ppm	0	○ <1	0	
Titanium	ppm	<1	<1	0	
Silver	ppm	0	0	0	
Manganese	ppm	0	0 1	○ <1	
Vanadium	ppm	<1	<1	0	

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Addmives					
Calcium	ppm	0 1328	0 1326	0 1311	
Magnesium	ppm	07	8	8	
Zinc	ppm	0 707	685	0 707	
Phosphorus	ppm	<u> </u>	684	629	
Barium	ppm	0 🔘	0	0	
Boron	ppm	0 0	0	0	



#### HEAVY MACHINES INC.

3930 EAST RAINES RD MEMPHIS, TN US 38118 Contact: J. DAVIS JDAVIS@HEAVY.LLC.COM T: F: (901)260-2245

### Diagnosis

No corrective action is recommended at this time. 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. Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

 Depot:
 LEC0051

 Unique No:
 11021442

 Signed:
 Don Baldridge

 Report Date:
 14 May 2024

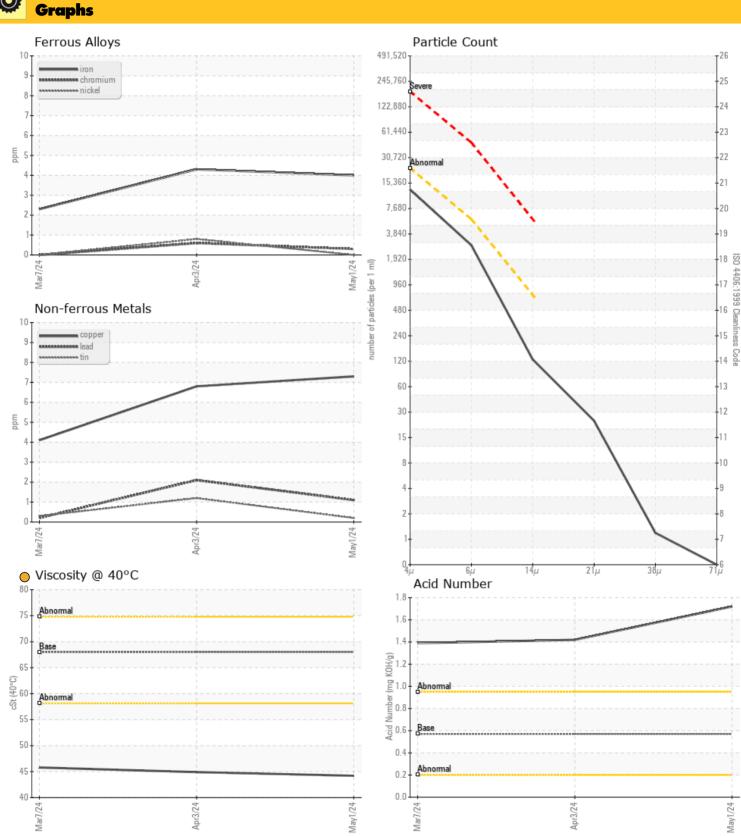
 Contact/Location:
 J. DAVIS - LEC0051

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Report Id: LEC0051 [WUSCAR] 06175389 (Generated: 05/14/2024 13:47:02) Rev: 1
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Report Id: LEC0051 [WUSCAR] 06175389 (Generated: 05/14/2024 13:47:05) Rev: 1

Contact/Location: J. DAVIS - LEC0051 Page 2 of 2