



## LIEBHERR LH40 ML13 - Hydraulic System

Sample No: LHMC122823

Oil Type: AW HYDRAULIC OIL ISO 68

## SAMPLE INFORMATION

Sample Number	LHMC122823	LHMC103201	 
Sample Date	04 Aug 2023	11 May 2023	 
Machine Hours	12102	11583	 
Oil Hours	0	0	 
Oil Changed	N/A	Not Changd	 
Sample Status	NORMAL	NORMAL	 

	NULLION			
Visc @ 40°C	cSt	<b>55.5</b>	57.2	 
Acid Number (AN)	mg KOH/g	0.53	0.52	 
100 M				

Particles >4µm		0 16022	2581		
Particles >6µm		0 2974	0 474		
Particles >14µm		99	32		
ISO 4406:1999 (c)		21/19/14	19/16/12		
Silicon	ppm	01	○ <1		
Sodium	ppm	0 2	0		
Potassium	ppm	<b>()</b> <1	◯ <1		

## **WEAR METALS**

Iron	ppm	8	07	 
Copper	ppm	<b>3</b>	03	 
Lead	ppm	<b>○</b> <1	○ <1	 
Tin	ppm	0 🔘	0 0	 
Aluminum	ppm	0 🔘	0	 
Chromium	ppm	<b>○</b> <1	○ <1	 
Molybdenum	ppm	<b>○</b> <1	0	 
Nickel	ppm	0 🔘	0 0	 
Titanium	ppm	0	0	 
Silver	ppm	0	0	 
Manganese	ppm	0 🔘	0	 
Vanadium	ppm	0	0	 

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ADD	ITIVES			
Calcium	ppm	283	◯ 311	 
Magnesium	ppm	<b>○</b> <1	02	 
Zinc	ppm	0 519	0 486	 
Phosphorus	ppm	0 390	◯ 370	 
Barium	ppm	0 🔘	0	 
Boron	ppm	0 ()	0	 

#### **OSCAR WINSKI CO. INC**

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### Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

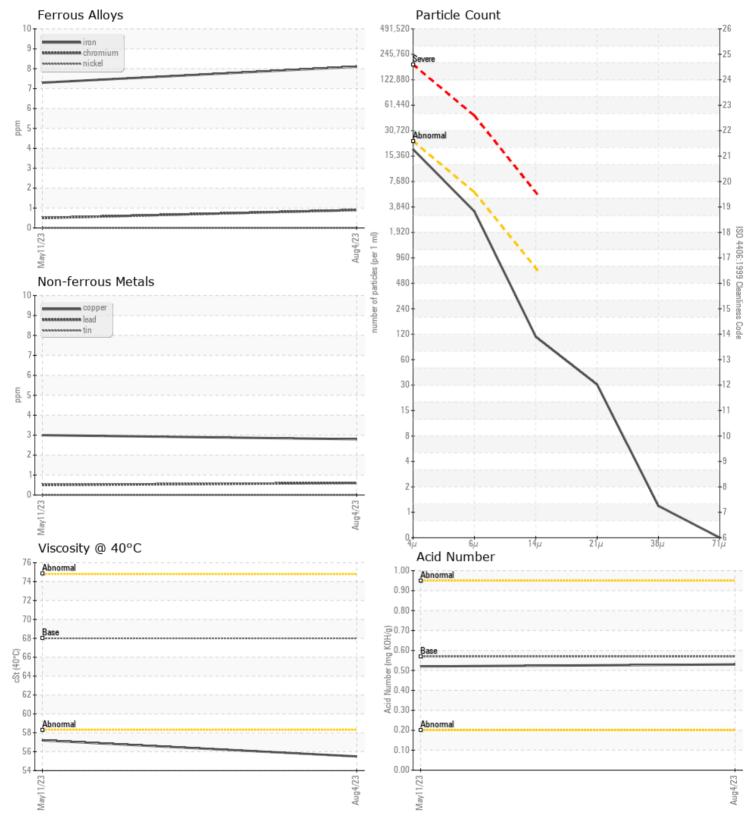
Depot:	OSCLAF
Unique No:	10615553
Signed:	Wes Davis
Report Date:	22 Aug 2023

# **LEBHERR** CONSTRUCTION EQUIPMENT

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GRAPHS





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Contact/Location: PATRICK CHRISTOPHER - OSCLAF