

LIEBHERR LH50 100676 - Hydraulic System

Sample No: LH0280924

Oil Type: AW HYDRAULIC OIL ISO 46

SAMPLE INFORMATION

Sample Number	LH0280924	LH0260320	
Sample Date	08 Feb 2024	01 Jun 2023	
Machine Hours	0	0	
Oil Hours	0	0	
Oil Changed	Not Changd	Not Changd	
Sample Status	ABNORMAL	SEVERE	

Visc @ 40°C

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cSt **0 47.3**

Water	%	NEG	NEG			
Particles >4µm		0 4452	0 1240			
Particles >6µm		897	0 163			
Particles >14µm		0 45	0 14			
ISO 4406:1999 (c)		19/17/13	17/15/11			
Silicon	ppm	5	04			
Sodium	ppm	02	02			
Potassium	ppm	01	○ <1			

0 42.5

Iron	ppm	0 22	23	
Copper	ppm	06	07	
Lead	ppm	01	○ <1	
Tin	ppm	0 (○ <1	
Aluminum	ppm	0 2	01	
Chromium	ppm	<mark>)</mark> 9	0 11	
Molybdenum	ppm	○ <1	○ <1	
Nickel	ppm	○ <1	0	
Titanium	ppm	0	<1	
Silver	ppm	0	1	
Manganese	ppm	0	○ <1	
Vanadium	ppm	0	0	

0

	ITIVES				
Calcium	ppm	2036	0 1774	 	
Magnesium	ppm	0 15	0 12	 	
Zinc	ppm	0 724	659	 	
Phosphorus	ppm	629	631	 	
Barium	ppm	0	0	 	
Boron	ppm	01	0 2	 	





R J MACISAAC CONSTRUCTION LTD

70 WEST ST, SUITE #1 ANTIGONISH, NS CA B2G 2X7 Contact: Service Manager INFO@RJMACISAAC.CA T: (902)863-6950 F: (902)863-0113

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.Chromium ppm levels are abnormal. Ring wear is indicated. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. NOTE: An increase in the particle count is noted. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

 Depot:
 RJMANT

 Unique No:
 5723765

 Signed:
 Kevin Marson

 Report Date:
 12 Feb 2024

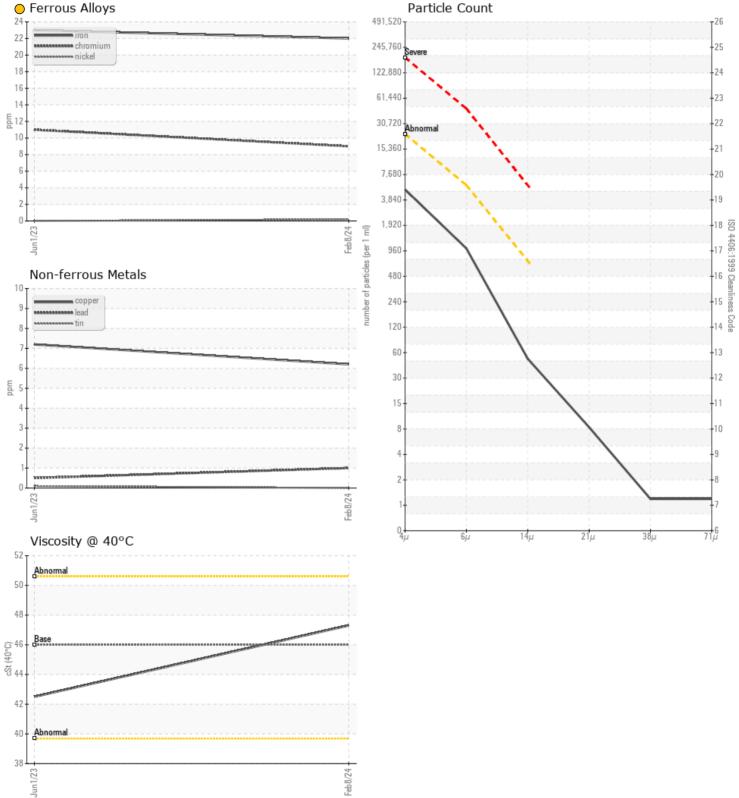




Ferrous Alloys

GRAPHS

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