

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 15070 - Hydraulic System

Sample No: LH0296515

Oil Type: {unknown}



#### Sample Information

Sample Number	LH0296515	LH0270539	LH0270113	---
Sample Date	07 Jul 2024	13 Mar 2024	25 Sep 2023	---
Machine Hours	3457	2276	430	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	Not Changd	N/A	---
Sample Status	SEVERE	NORMAL	SEVERE	---

#### DOFASCO INC.

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 HAMILTON, ON  
 CA L8N 3J5  
 Contact: HAROLD LOUDEN  
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 T: (905)548-7200  
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#### Oil Condition

Visc @ 40°C	cSt	44.2	44.5	46.9	---
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#### Contamination

Water	%	NEG	NEG	NEG	---
Particles >4µm		137405	6906	108603	---
Particles >6µm		60840	1384	41419	---
Particles >14µm		3800	89	1176	---
ISO 4406:1999 (c)		24/23/19	20/18/14	24/23/17	---
Silicon	ppm	<1	1	<1	---
Sodium	ppm	<1	<1	<1	---
Potassium	ppm	0	<1	0	---



#### Wear Metals

Iron	ppm	4	4	<1	---
Copper	ppm	1	1	<1	---
Lead	ppm	2	2	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	<1	<1	0	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	0	0	0	---
Vanadium	ppm	0	0	0	---



#### Additives

Calcium	ppm	256	461	103	---
Magnesium	ppm	<1	2	<1	---
Zinc	ppm	839	791	853	---
Phosphorus	ppm	640	659	662	---
Barium	ppm	0	0	<1	---
Boron	ppm	<1	<1	<1	---

#### Diagnosis

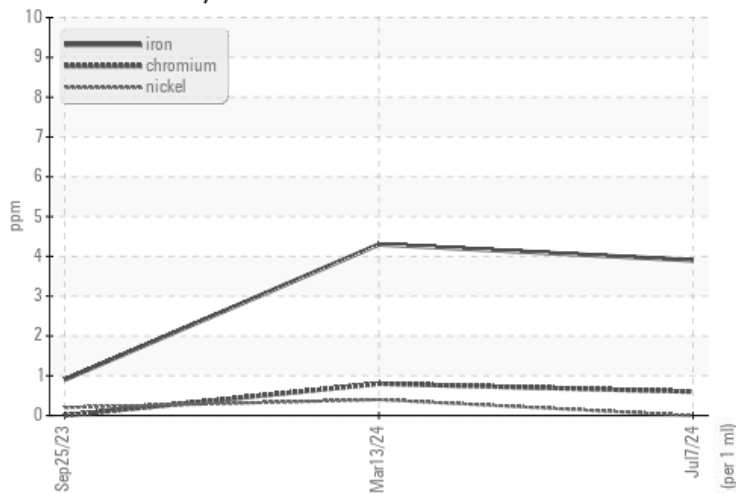
We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: DOFHAM  
 Unique No: 5811857  
 Signed: Wes Davis  
 Report Date: 09 Jul 2024

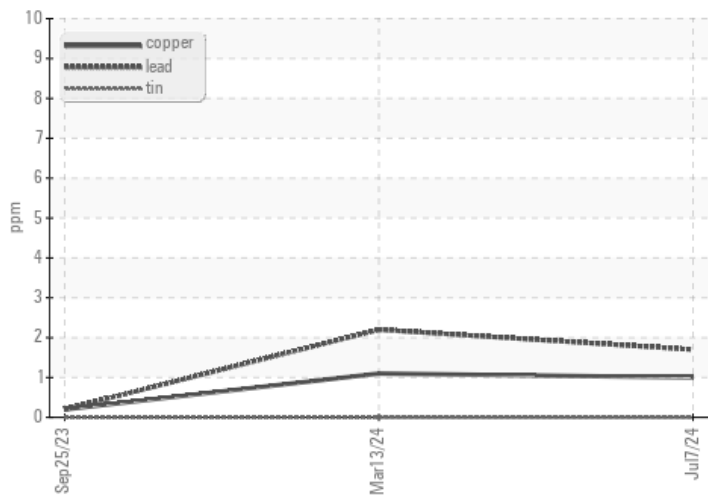


### Graphs

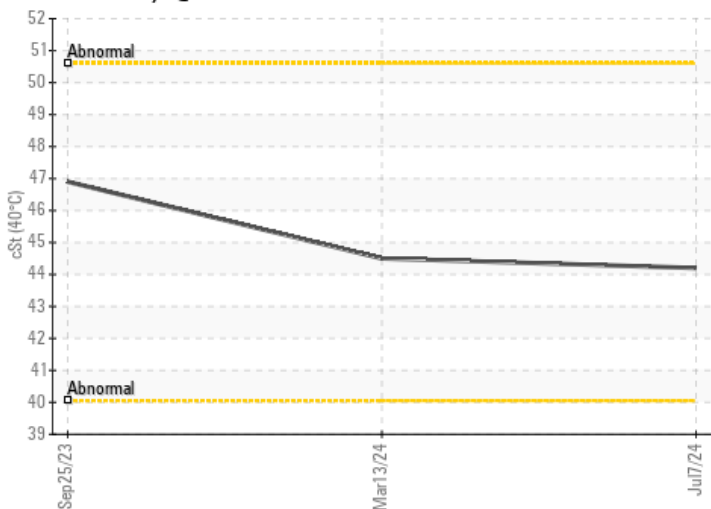
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

