

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A944 079419 - Hydraulic System

Sample No: LH0292274

Oil Type: {unknown}



Liebherr Canada

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 Richmond, BC
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Sample Information

Sample Number	LH0292274	---	---	---
Sample Date	11 Jul 2024	---	---	---
Machine Hours	16752	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---



Oil Condition

Visc @ 40°C	cSt	61.3	---	---	---
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Contamination

Water	%	NEG	---	---	---
Particles >4µm		● 1956060	---	---	---
Particles >6µm		● 741425	---	---	---
Particles >14µm		● 2310	---	---	---
ISO 4406:1999 (c)		28/27/18	---	---	---
Silicon	ppm	● 6	---	---	---
Sodium	ppm	● 3	---	---	---
Potassium	ppm	● 0	---	---	---



Wear Metals

Iron	ppm	● 6	---	---	---
Copper	ppm	● 4	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● 2	---	---	---
Chromium	ppm	● <1	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



Additives

Calcium	ppm	● 2143	---	---	---
Magnesium	ppm	● 7	---	---	---
Zinc	ppm	● 1067	---	---	---
Phosphorus	ppm	● 967	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 1	---	---	---

Diagnosis

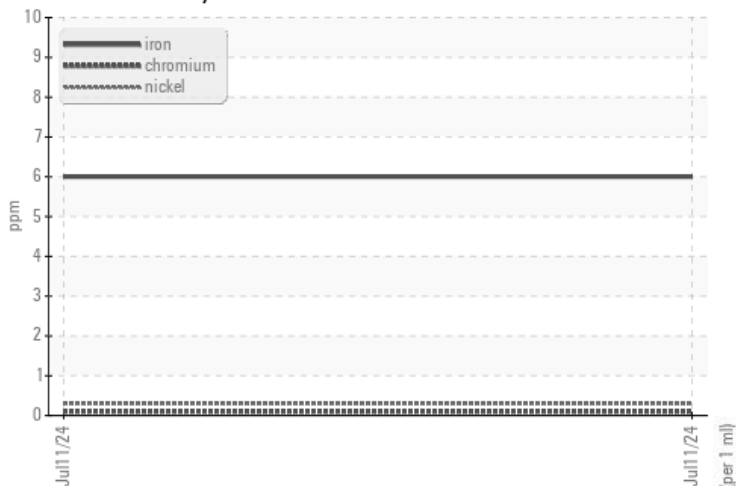
We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 80 Tractor TDH Fluid. Please confirm the oil type and grade, and specify the brand 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: LIERIC
 Unique No: 5813418
 Signed: Kevin Marson
 Report Date: 18 Jul 2024

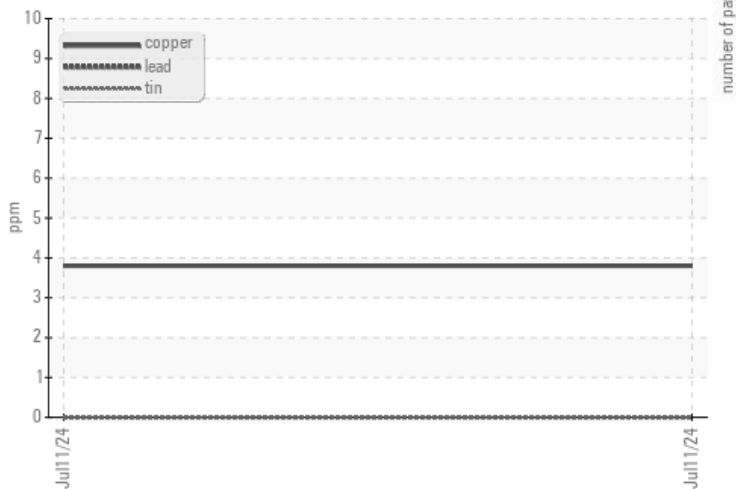


Graphs

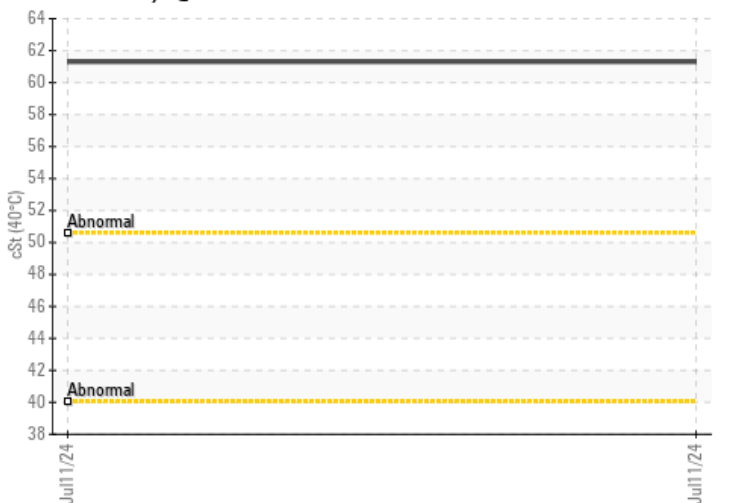
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

