LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR R922 54275 - Hydraulic System

Sample No: LH0260501

Oil Type: NOT GIVEN

Liebherr Canada
140 - 21320 Gordon Way
Richmond, BC
CA V6W 1J8
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SAMPLE INFORMATION

Sample Number		**LH0260501**	LH0238609	---	---
Sample Date		**31 Jul 2023**	22 Feb 2023	---	---
Machine Hours		**1546**	518	---	---
Oil Hours		**0**	0	---	---
Oil Changed		**Not Changd**	Not Changd	---	---
Sample Status		**SEVERE**	NORMAL	---	---

OIL CONDITION

Visc @ 40°C	cSt	**42.5**	44.1	---	---

CONTAMINATION

Particles >4µm		**5722**	378	---	---
Particles >6µm		**643**	92	---	---
Particles >14µm		**33**	6	---	---
ISO 4406:1999 (c)		**20/17/12**	16/14/10	---	---
Silicon	ppm	**6**	6	---	---
Sodium	ppm	**3**	2	---	---
Potassium	ppm	**<1**	<1	---	---

WEAR METALS

Iron	ppm	**13**	7	---	---
Copper	ppm	**50**	11	---	---
Lead	ppm	**6**	2	---	---
Tin	ppm	**2**	<1	---	---
Aluminum	ppm	**<1**	<1	---	---
Chromium	ppm	**<1**	<1	---	---
Molybdenum	ppm	**<1**	0	---	---
Nickel	ppm	**0**	0	---	---
Titanium	ppm	**0**	0	---	---
Silver	ppm	**0**	0	---	---
Manganese	ppm	**<1**	<1	---	---
Vanadium	ppm	**0**	0	---	---

ADDITIVES

Calcium	ppm	**1126**	1395	---	---
Magnesium	ppm	**4**	4	---	---
Zinc	ppm	**727**	678	---	---
Phosphorus	ppm	**650**	668	---	---
Barium	ppm	**0**	0	---	---
Boron	ppm	**1**	<1	---	---

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. Please specify the brand, type, and viscosity of the oil on your next sample.Copper ppm levels are severe. Lead ppm levels are abnormal. Bearing and/or bushing 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: LIERIC
Unique No: 5632439
Signed: Kevin Marson
Report Date: 31 Aug 2023

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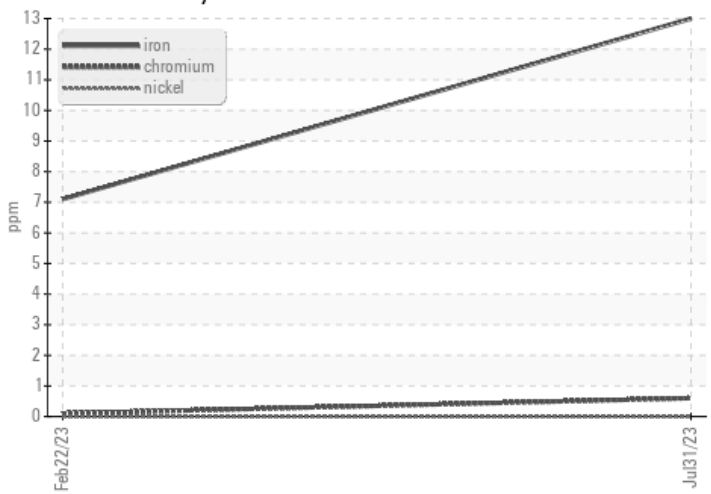
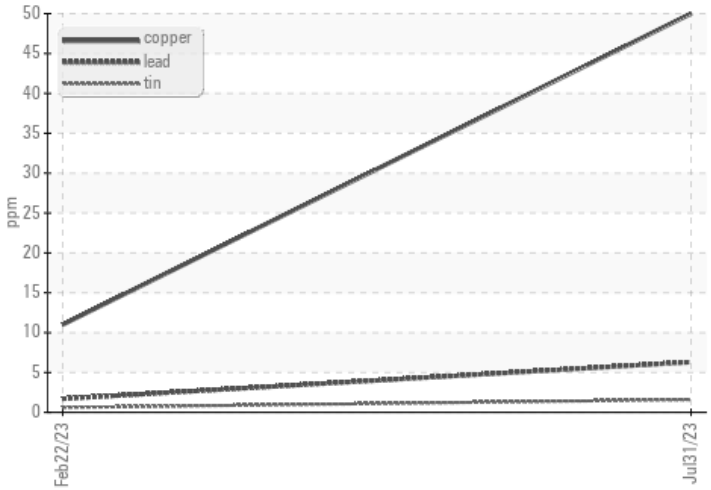
GRAPHS

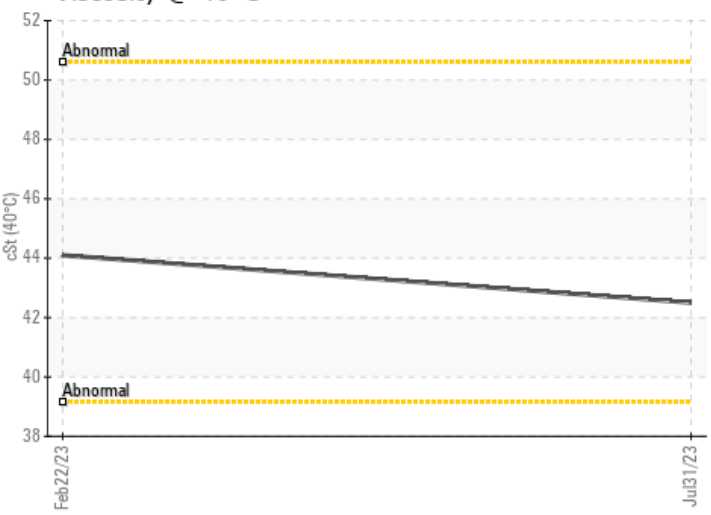
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count