

LIEBHERR

CONSTRUCTION EQUIPMENT



[(353864)] LIEBHERR L546 062410-1755 - Hydraulic System

Sample No: LH0260964

Oil Type: LIEBHERR HYDRAULIC PLUS



SAMPLE INFORMATION

Sample Number	LH0260964	LH0260922	LH0226862	---
Sample Date	23 Jun 2023	21 Apr 2023	14 Apr 2022	---
Machine Hours	2406	2044	1028	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	Not Changd	Not Changd	---
Sample Status	ATTENTION	ABNORMAL	ABNORMAL	---

METAUX 139 INC.
86 RTE MARIE-VICTORIN
PIERREVILLE, QC
CA J0G 1J0
Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	● 42.5	● 42.5	● 44.5	---
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T:
F:



CONTAMINATION

Particles >4µm		● 28406	● 67126	● 61444	---
Particles >6µm		● 5832	● 11075	● 4428	---
Particles >14µm		● 400	● 76	● 155	---
ISO 4406:1999 (c)		22/20/16	23/21/13	23/19/14	---
Silicon	ppm	● 3	● 3	● 3	---
Sodium	ppm	● 2	● 2	● 1	---
Potassium	ppm	● 3	● 3	● 2	---

Diagnosis

We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	● 15	● 16	● 11	---
Copper	ppm	● 7	● 7	● 5	---
Lead	ppm	● 10	● 9	● 3	---
Tin	ppm	● <1	● <1	● <1	---
Aluminum	ppm	● 1	● 2	● 1	---
Chromium	ppm	● 2	● 2	● 2	---
Molybdenum	ppm	● 0	● 0	● 0	---
Nickel	ppm	● <1	● <1	<1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	● <1	● <1	● <1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

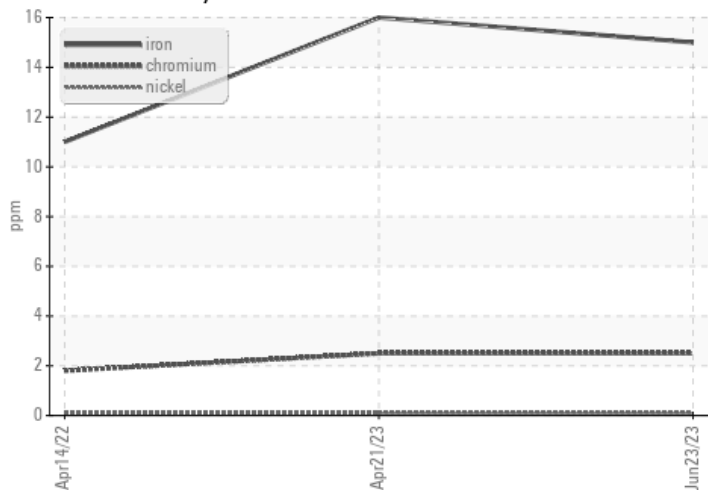
Calcium	ppm	984	1080	● 1422	---
Magnesium	ppm	● 13	● 12	● 5	---
Zinc	ppm	653	652	● 694	---
Phosphorus	ppm	577	594	● 632	---
Barium	ppm	● 0	● 0	● 0	---
Boron	ppm	● <1	● <1	● <1	---

Depot: MET126WIC
Unique No: 5605056
Signed: Kevin Marson
Report Date: 06 Jul 2023

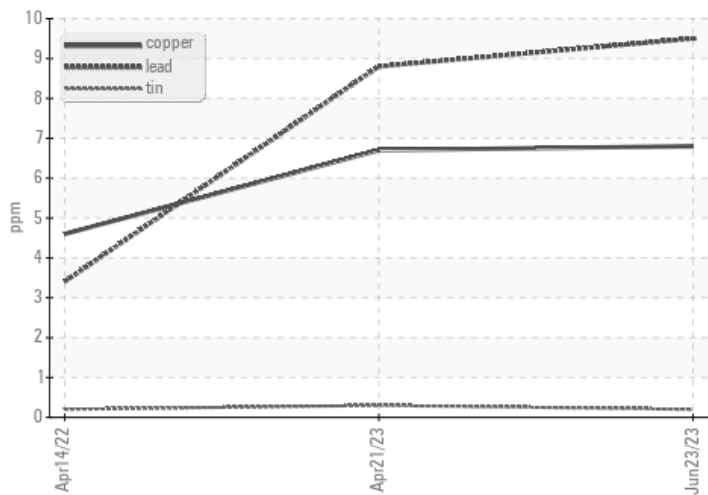


GRAPHS

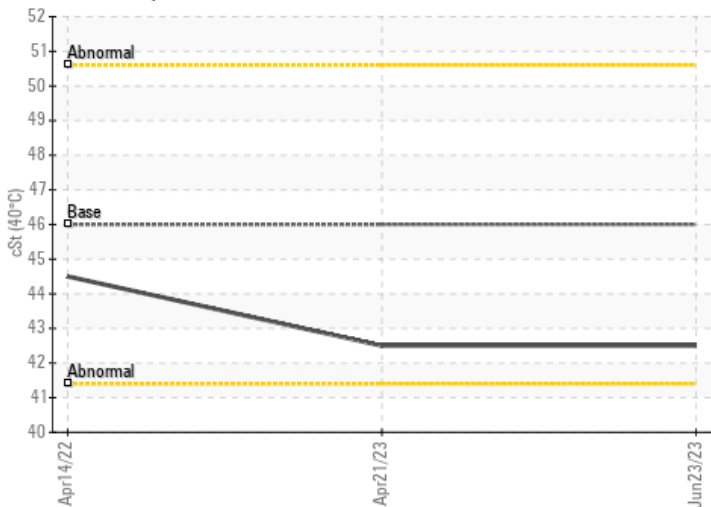
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

