

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L538 21072 - Hydraulic System

Sample No: LH0187313

Oil Type: {unknown}



Sample Information

Sample Number	LH0187313	---	---	---
Sample Date	21 Jun 2023	---	---	---
Machine Hours	13845	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ATTENTION	---	---	---

CLOUTHIER VENTURES LTD.
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 PEMBROKE, ON
 CA K8A 0A6
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Oil Condition

Visc @ 40°C	cSt	● 42.6	---	---	---
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Contamination

Water	%	NEG	---	---	---
Particles >4µm		● 25167	---	---	---
Particles >6µm		● 3625	---	---	---
Particles >14µm		● 79	---	---	---
ISO 4406:1999 (c)		22/19/13	---	---	---
Silicon	ppm	● 3	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● <1	---	---	---

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The condition of the oil is acceptable for the time in service.



Wear Metals

Iron	ppm	● 16	---	---	---
Copper	ppm	● 5	---	---	---
Lead	ppm	● 2	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● 1	---	---	---
Chromium	ppm	● 1	---	---	---
Molybdenum	ppm	<1	---	---	---
Nickel	ppm	● 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



Additives

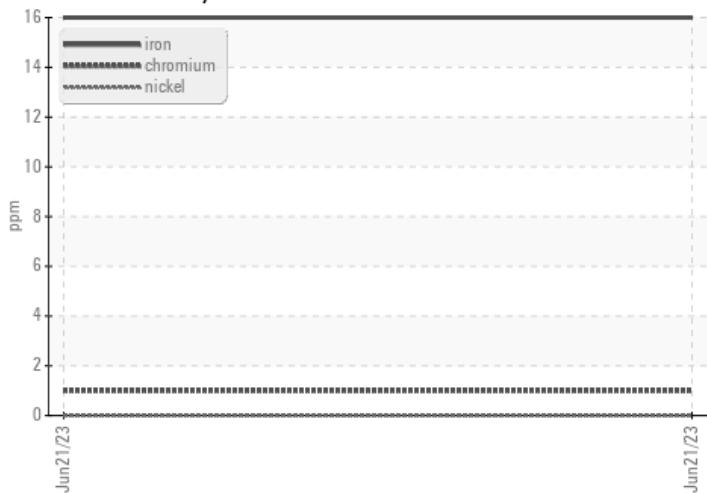
Calcium	ppm	160	---	---	---
Magnesium	ppm	3	---	---	---
Zinc	ppm	739	---	---	---
Phosphorus	ppm	622	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	1	---	---	---

Depot: CLOPEM
Unique No: 5603999
Signed: Wes Davis
Report Date: 29 Jun 2023

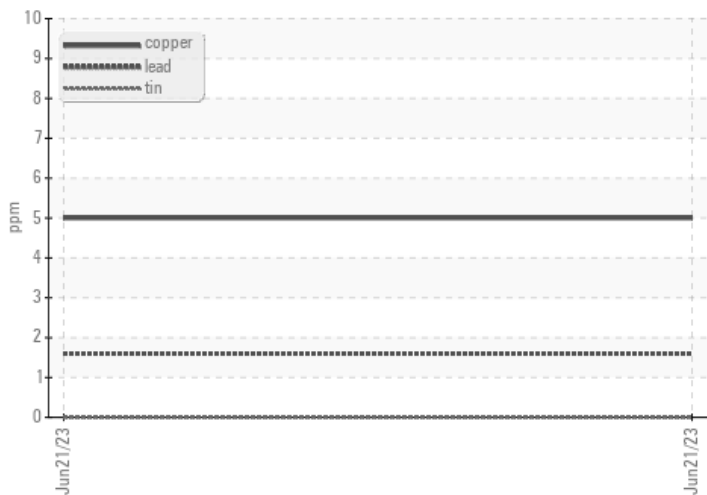


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

