

LIEBHERR

CONSTRUCTION EQUIPMENT



116431-1217 - Hydraulic System

Sample No: LH0195493

Oil Type: LIEBHERR HYDRAULIC HVI



SAMPLE INFORMATION

Sample Number	LH0195493	LH0153848	---	---
Sample Date	08 Apr 2021	23 Dec 2019	---	---
Machine Hours	3172	559	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	ABNORMAL	ATTENTION	---	---

American Iron and Metal

2555 Sheffield Road
Ottawa, ON
CA K1B 3V6
Contact: Dan Dupelle
ddupelle@aim-rg.com
T: (613)228-9380
F: (613)745-0692



OIL CONDITION

Visc @ 40°C	cSt	● 41.7	● 44.9	---	---
Acid Number (AN)	mg KOH/g	---	● 1.42	---	---



CONTAMINATION

Particles >4µm		● 41483	● 23075	---	---
Particles >6µm		● 8265	● 237	---	---
Particles >14µm		● 97	● 5	---	---
ISO 4406:1999 (c)		23/20/14	22/15/10	---	---
Silicon	ppm	● 2	● 1	---	---
Sodium	ppm	● 2	● 0	---	---
Potassium	ppm	● 1	● 1	---	---

Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. Particles >4µm are abnormally high. Particles >6µm are notably high. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



WEAR METALS

PQ		● 3	---	---	---
Iron	ppm	● 68	● 24	---	---
Copper	ppm	● 4	● 2	---	---
Lead	ppm	● <1	● <1	---	---
Tin	ppm	● <1	● 0	---	---
Aluminum	ppm	● <1	● <1	---	---
Chromium	ppm	● <1	● <1	---	---
Molybdenum	ppm	● <1	● <1	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	● 1	● <1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

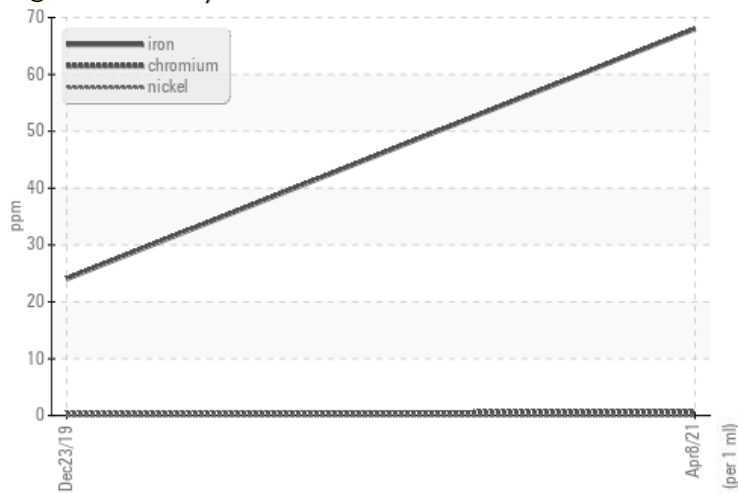
Calcium	ppm	● 1166	1241	---	---
Magnesium	ppm	● 7	● 8	---	---
Zinc	ppm	● 705	● 721	---	---
Phosphorus	ppm	● 577	● 620	---	---
Barium	ppm	● <1	● <1	---	---
Boron	ppm	● <1	● <1	---	---

Depot: BAKOTT
Unique No: 5201894
Signed: Kevin Marson
Report Date: 13 Apr 2021

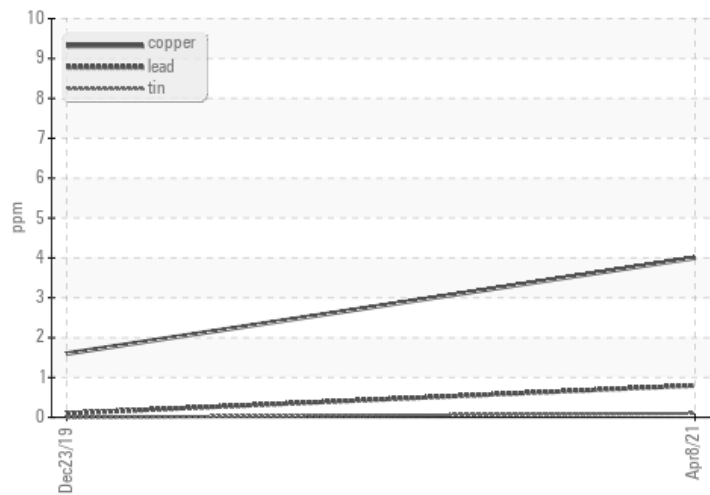


GRAPHS

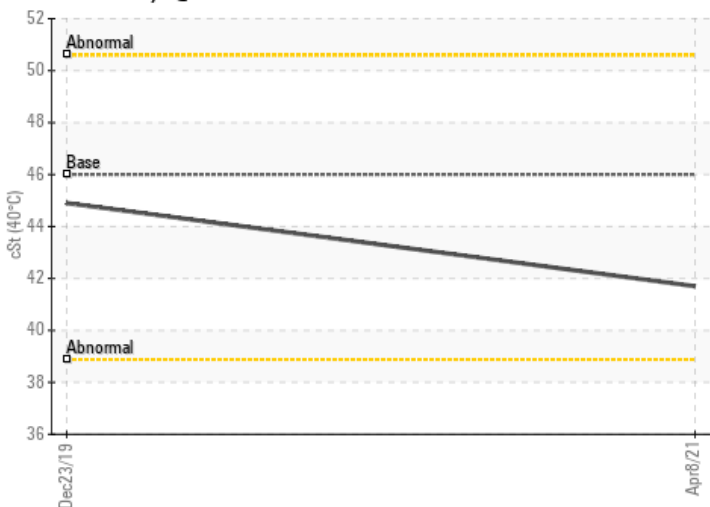
● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



● Particle Count

