

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 1253-118648 - Hydraulic System

Sample No: LH0268301

Oil Type: LIEBHERR HYDRAULIC HVI



JR VINAGRO
2208 PLAINFIELD PIKE
JOHNSTON, RI
US 02919
Contact: Service Manager



Sample Information

Sample Number	LH0268301	LH0229220	LH0207390	---
Sample Date	17 Jun 2024	07 Mar 2023	09 Nov 2021	---
Machine Hours	2346	1690	952	---
Oil Hours	2346	952	952	---
Oil Changed	N/A	N/A	Filtered	---
Sample Status	NORMAL	NORMAL	NORMAL	---



Oil Condition

Visc @ 40°C	cSt	40.78	42.6	43.8	---
Acid Number (AN)	mg KOH/g	1.10	0.94	0.957	---



Contamination

Water	%	NEG	NEG	NEG	---
Particles >4µm		6735	2615	14707	---
Particles >6µm		1390	303	4025	---
Particles >14µm		75	13	509	---
ISO 4406:1999 (c)		20/18/13	19/15/11	21/19/16	---
Silicon	ppm	8	3	2	---
Sodium	ppm	2	<1	<1	---
Potassium	ppm	2	1	3	---



Wear Metals

Iron	ppm	20	29	22	---
Copper	ppm	2	4	6	---
Lead	ppm	<1	<1	2	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	1	1	<1	---
Chromium	ppm	2	3	2	---
Molybdenum	ppm	4	4	4	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	2	---
Manganese	ppm	<1	1	<1	---
Vanadium	ppm	<1	0	0	---



Additives

Calcium	ppm	2525	2221	2006	---
Magnesium	ppm	35	34	31	---
Zinc	ppm	960	855	815	---
Phosphorus	ppm	808	689	683	---
Barium	ppm	0	0	0	---
Boron	ppm	9	9	6	---

T:
F:

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

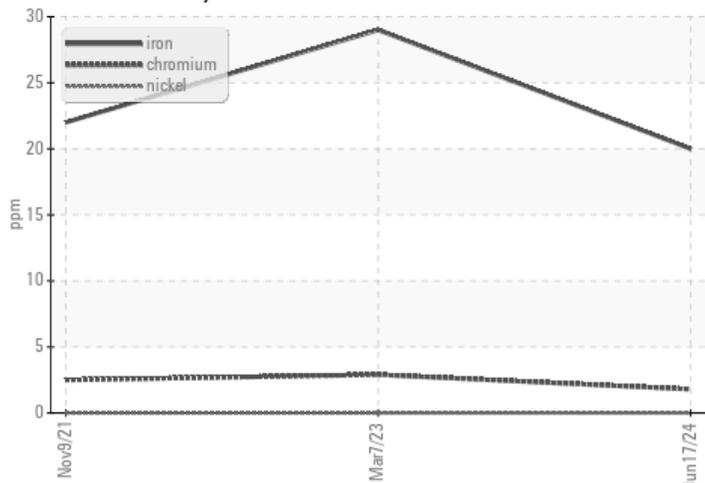
Depot: JRVJOH
Unique No: 11098553
Signed: Jonathan Hester
Report Date: 28 Jun 2024

Submitted By: MIKE MACKINNON

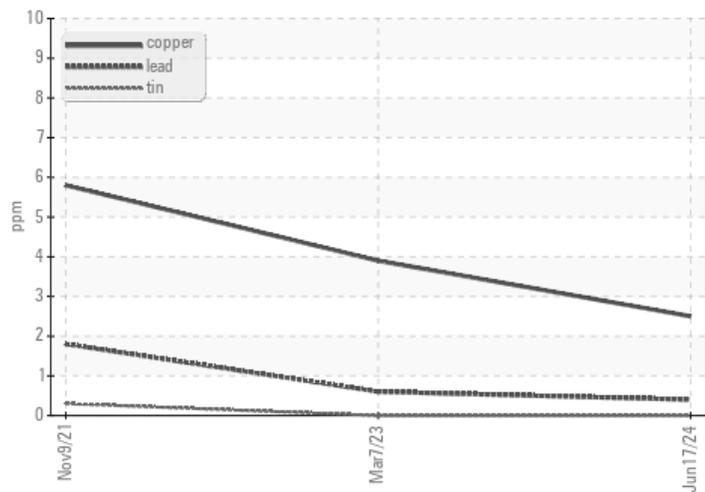


Graphs

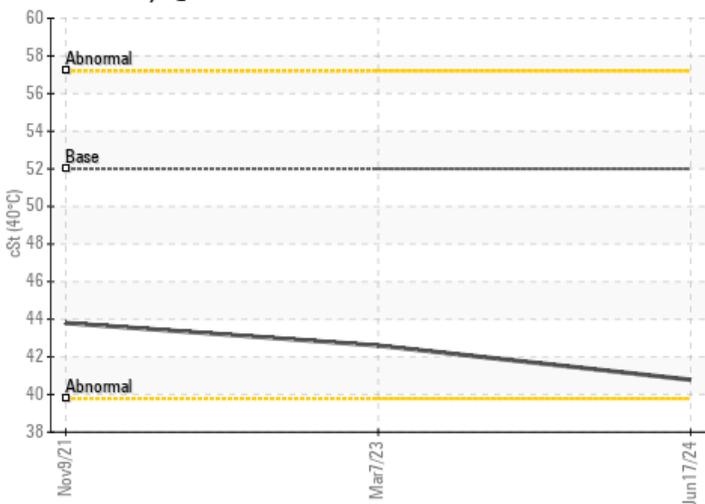
Ferrous Alloys



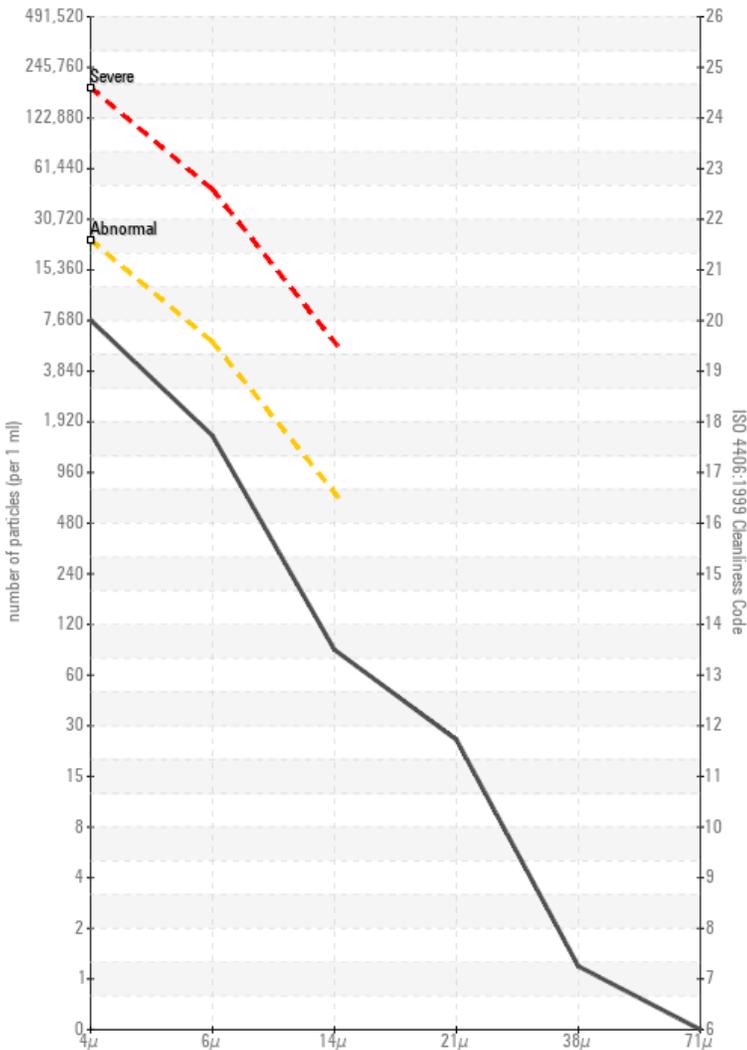
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

