

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 144157-1216 - Hydraulic System

Sample No: LH0255454

Oil Type: LIEBHERR HYDRAULIC HVI



CALGARY METALS (1985) LTD.
 3415 OGDEN RD. SE.
 CALGARY, AB
 CA T2G 4N4
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 F:



Sample Information

Sample Number	LH0255454	LH0255442	LH0225081	---
Sample Date	21 Jun 2024	17 Nov 2023	15 Feb 2023	---
Machine Hours	3338	2077	472	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	Not Changd	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---



Oil Condition

Visc @ 40°C	cSt	37.5	38.8	42.8	---
Acid Number (AN)	mg KOH/g	1.03	1.36	---	---



Contamination

Water	%	NEG	NEG	0.190	---
Particles >4µm		4695	793	1354	---
Particles >6µm		739	179	186	---
Particles >14µm		69	6	13	---
ISO 4406:1999 (c)		19/17/13	17/15/10	18/15/11	---
Silicon	ppm	3	4	2	---
Sodium	ppm	1	<1	<1	---
Potassium	ppm	1	0	<1	---



Wear Metals

Iron	ppm	24	20	10	---
Copper	ppm	4	4	1	---
Lead	ppm	0	<1	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	1	<1	0	---
Molybdenum	ppm	<1	0	0	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	<1	0	---
Manganese	ppm	<1	0	<1	---
Vanadium	ppm	0	0	0	---



Additives

Calcium	ppm	873	1048	1214	---
Magnesium	ppm	13	8	5	---
Zinc	ppm	590	634	649	---
Phosphorus	ppm	498	549	638	---
Barium	ppm	<1	<1	0	---
Boron	ppm	2	2	2	---

Diagnosis

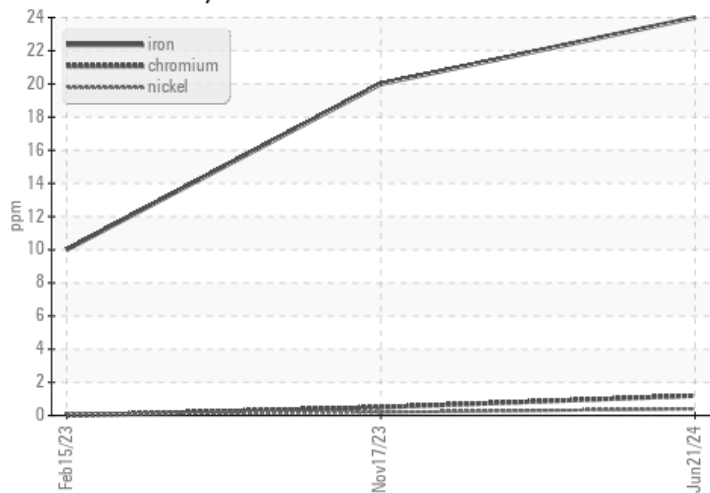
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: CAL341CAL
 Unique No: 5802153
 Signed: Wes Davis
 Report Date: 02 Jul 2024

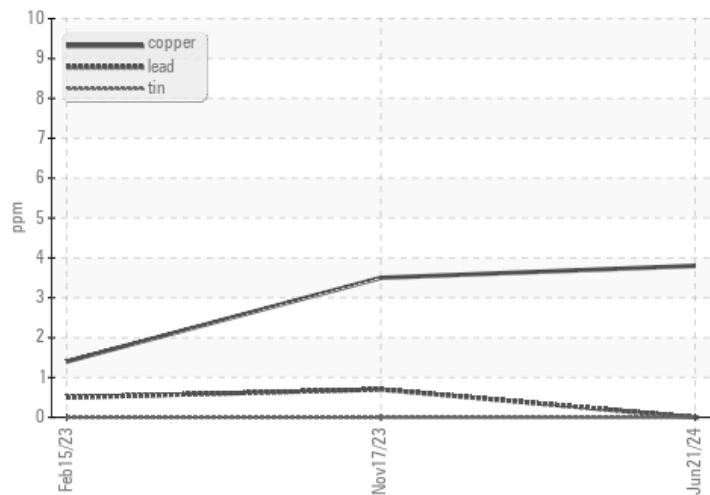


Graphs

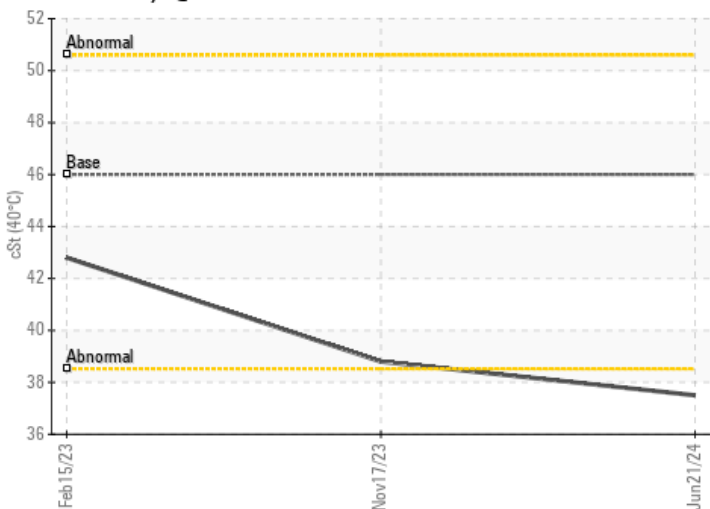
Ferrous Alloys



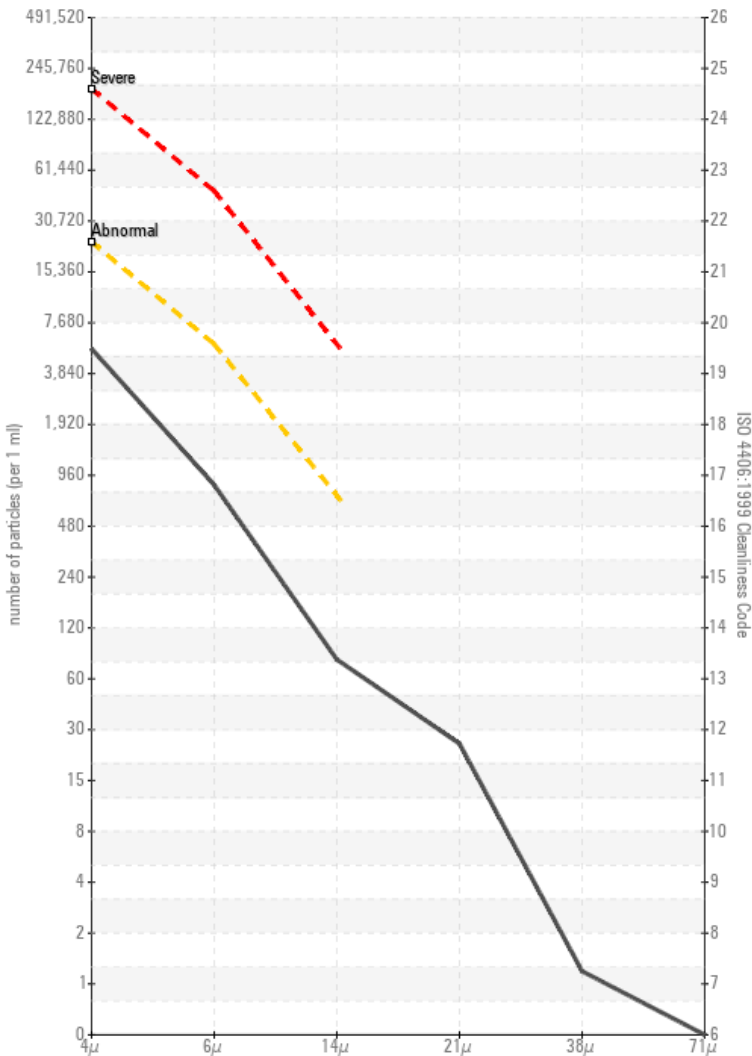
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

