

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60 1217-135285 - Hydraulic System

Sample No: LH0223478

Oil Type: DURALENE ZFH HVI 68



SAMPLE INFORMATION

Sample Number	LH0223478	LH0223467	DC0021958	---
Sample Date	20 Oct 2023	23 Apr 2023	30 Nov 2022	---
Machine Hours	3182	2000	1796	---
Oil Hours	0	0	1796	---
Oil Changed	Not Changd	N/A	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

CONSERVIT INC.

PO BOX 1517
HAGERSTOWN, MD
US 21740
Contact: DON LONG
dlong@conservit.biz
T: (301)791-0100
F: (301)739-8548



OIL CONDITION

Visc @ 40°C	cSt	51.5	50.0	49.9	---
Acid Number (AN)	mg KOH/g	0.46	0.64	0.687	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		1815	981	14356	---
Particles >6µm		520	211	1027	---
Particles >14µm		51	14	44	---
ISO 4406:1999 (c)		18/16/13	17/15/11	21/17/13	---
Silicon	ppm	2	2	3	---
Sodium	ppm	3	2	2	---
Potassium	ppm	0	0	1	---



WEAR METALS

Iron	ppm	28	28	27	---
Copper	ppm	10	9	10	---
Lead	ppm	0	0	<1	---
Tin	ppm	<1	0	<1	---
Aluminum	ppm	<1	<1	0	---
Chromium	ppm	1	1	1	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	654	816	932	---
Magnesium	ppm	4	6	4	---
Zinc	ppm	333	399	473	---
Phosphorus	ppm	321	386	417	---
Barium	ppm	0	0	<1	---
Boron	ppm	0	0	0	---

Diagnosis

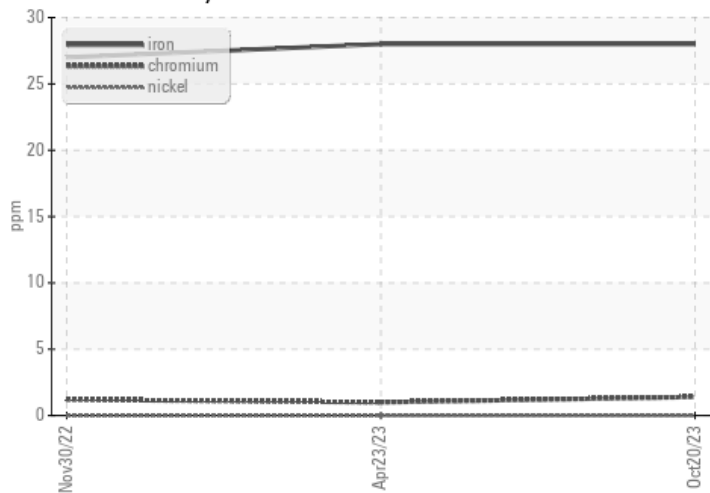
Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further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

Depot: CONHAG
Unique No: 10770198
Signed: Wes Davis
Report Date: 07 Dec 2023

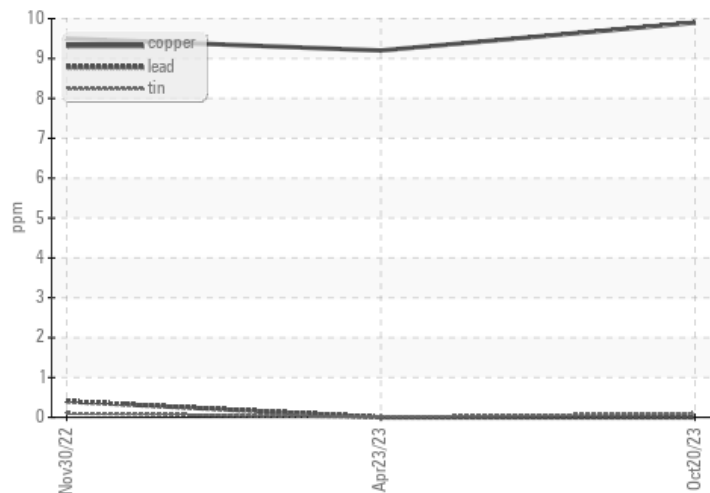


GRAPHS

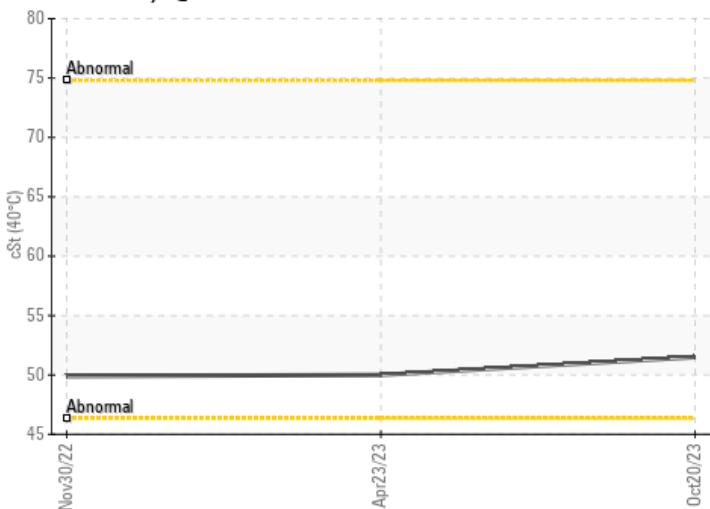
Ferrous Alloys



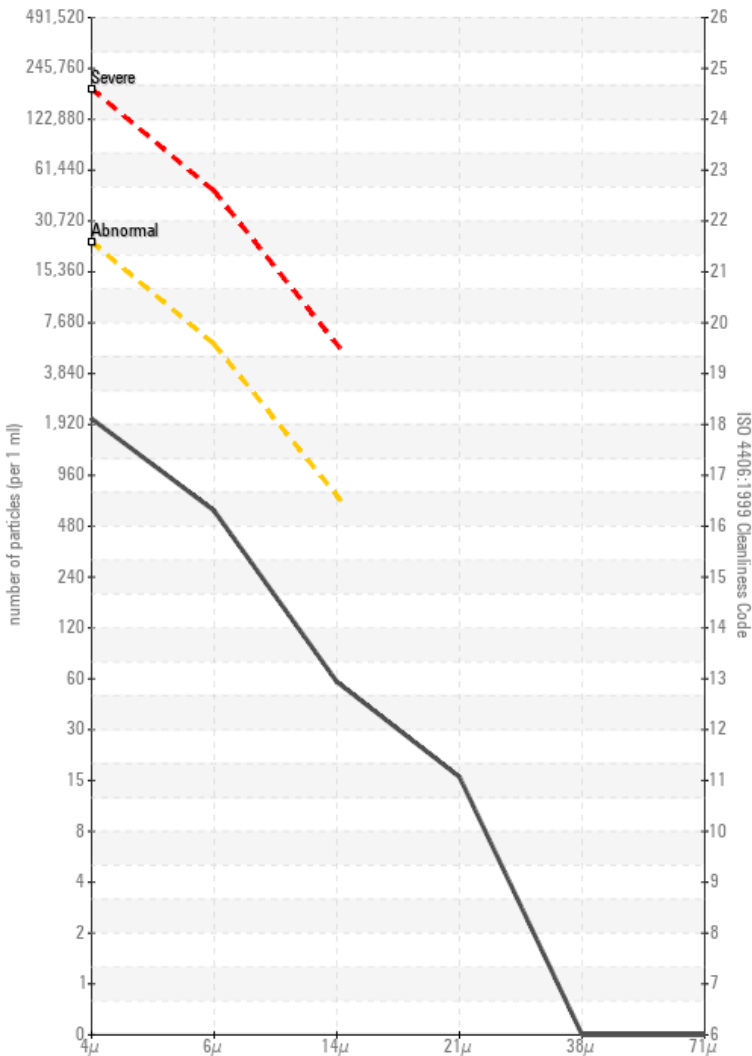
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

