

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR HS8100.1186046 - Hydraulic System

Sample No: LH0277551

Oil Type: LIEBHERR HYDRAULIC 37



SAMPLE INFORMATION

Sample Number	LH0277551	LH0242580	LH0239497	---
Sample Date	26 Jan 2024	14 Oct 2022	05 Aug 2022	---
Machine Hours	3503	1056	530	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	Not Changd	Not Changd	---
Sample Status	NORMAL	SEVERE	SEVERE	---

HIGGS & HIGGS

RR # 4

ST THOMAS, ON

CA N5P 3S8

Contact: Bernie Higgs



OIL CONDITION

Visc @ 40°C	cSt	35.6	36.2	37.1	---
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T: (519)631-4095

F: (519)631-2745



CONTAMINATION

Water	%	NEG	0.078	NEG	---
Particles >4µm		4718	210397	20865	---
Particles >6µm		877	125383	4675	---
Particles >14µm		21	29937	406	---
ISO 4406:1999 (c)		19/17/12	25/24/22	22/19/16	---
Silicon	ppm	2	2	2	---
Sodium	ppm	2	2	2	---
Potassium	ppm	1	<1	5	---

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	2	1	<1	---
Copper	ppm	3	2	1	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	0	0	0	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	0	0	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	697	863	831	---
Magnesium	ppm	2	3	2	---
Zinc	ppm	586	639	619	---
Phosphorus	ppm	467	559	510	---
Barium	ppm	0	0	0	---
Boron	ppm	19	26	23	---

Depot: HIGSTT

Unique No: 5720950

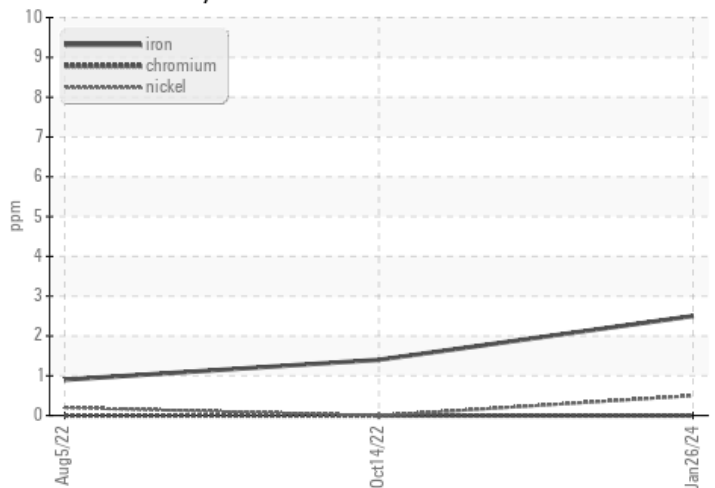
Signed: Wes Davis

Report Date: 31 Jan 2024

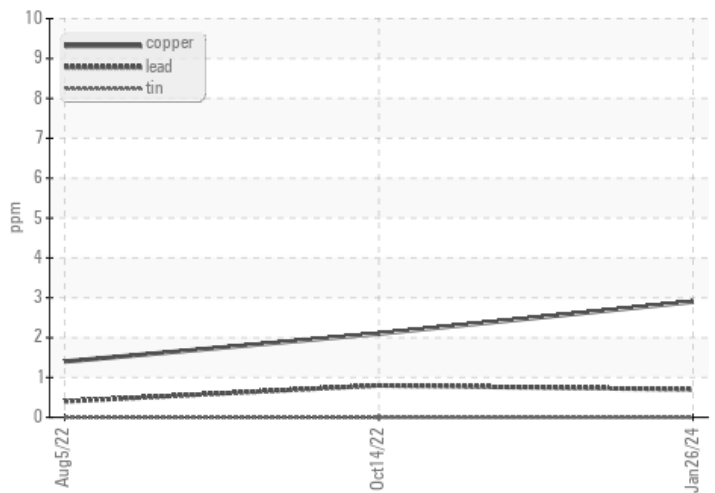


GRAPHS

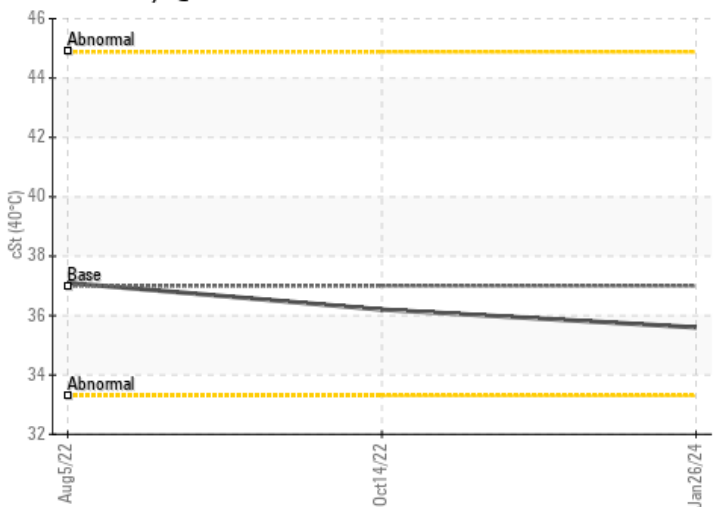
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

