

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR HS8100 184947 - Hydraulic System

Sample No: LH0278869

Oil Type: {unknown}



SAMPLE INFORMATION

Sample Number	LH0278869	LH0251534	LH0235038	LH
Sample Date	26 Jan 2024	05 May 2023	08 Jul 2022	09 Jul 2021
Machine Hours	15056	13236	77758	8863
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

HIGGS & HIGGS

RR # 4

ST THOMAS, ON

CA N5P 3S8

Contact: Bernie Higgs



OIL CONDITION

Visc @ 40°C	cSt	38.6	38.6	38.2	32.5
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T: (519)631-4095

F: (519)631-2745



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		4054	11873	6944	349
Particles >6µm		1103	3916	1226	86
Particles >14µm		51	206	42	6
ISO 4406:1999 (c)		19/17/13	21/19/15	20/17/13	16/14/10
Silicon	ppm	1	1	2	2
Sodium	ppm	1	<1	1	<1
Potassium	ppm	1	<1	0	<1

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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	5	3	6	5
Copper	ppm	3	2	4	4
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	<1	<1	0
Chromium	ppm	0	0	0	0
Molybdenum	ppm	8	2	<1	<1
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	267	158	149	165
Magnesium	ppm	122	34	5	7
Zinc	ppm	523	443	380	421
Phosphorus	ppm	445	405	388	365
Barium	ppm	0	0	0	0
Boron	ppm	10	5	3	4

Depot: HIGSTT

Unique No: 5721260

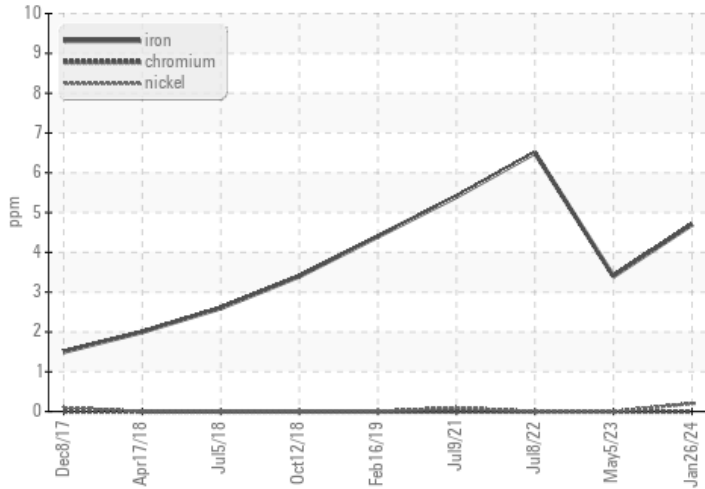
Signed: Wes Davis

Report Date: 31 Jan 2024

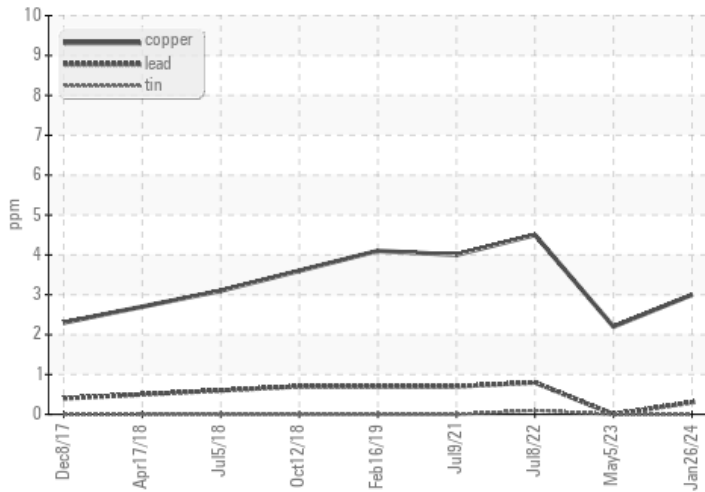


GRAPHS

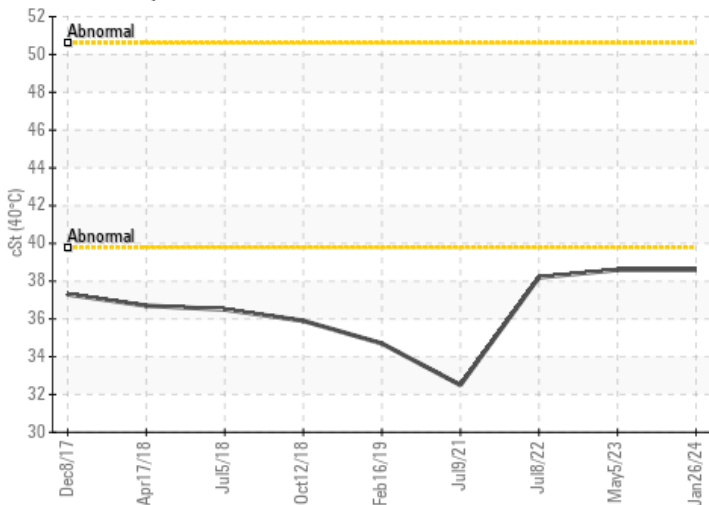
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

