

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR HS8130 185282 (S/N GFL286) - Hydraulic System

Sample No: LH0286602

Oil Type: LIEBHERR HYDRAULIC 37



#### Sample Information

Sample Number	LH0286602	LH0277817	LH0265750	LH0247065
Sample Date	14 Jun 2024	17 Nov 2023	02 Jun 2023	03 Feb 2023
Machine Hours	9037	8008	7105	6292
Oil Hours	0	0	0	0
Oil Changed	Not Changd	N/A	Not Changd	N/A
Sample Status	ABNORMAL	ABNORMAL	NORMAL	SEVERE

HIGGS & HIGGS

RR # 4

ST THOMAS, ON

CA N5P 3S8

Contact: Bernie Higgs



#### Oil Condition

Visc @ 40°C	cSt	36.2	36.2	37.2	34.9
		36.2	36.2	37.2	34.9

T: (519)631-4095

F: (519)631-2745



#### Contamination

Water	%	0.026	NEG	NEG	NEG
Particles >4µm		22764	4934	5368	132511
Particles >6µm		8496	1872	1131	58678
Particles >14µm		854	155	80	5222
ISO 4406:1999 (c)		22/20/17	19/18/14	20/17/13	24/23/20
Silicon	ppm	2	3	4	4
Sodium	ppm	1	2	1	1
Potassium	ppm	2	<1	1	<1

#### Diagnosis

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. Free water present. The oil is no longer serviceable due to the presence of contaminants.



#### Wear Metals

Iron	ppm	5	5	4	4
Copper	ppm	5	4	3	3
Lead	ppm	<1	1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	0	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	4	4	4	4
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	268	299	300	301
Magnesium	ppm	62	70	70	68
Zinc	ppm	467	496	467	473
Phosphorus	ppm	384	408	430	436
Barium	ppm	0	<1	0	0
Boron	ppm	9	10	10	10

Depot: HIGSTT

Unique No: 5800949

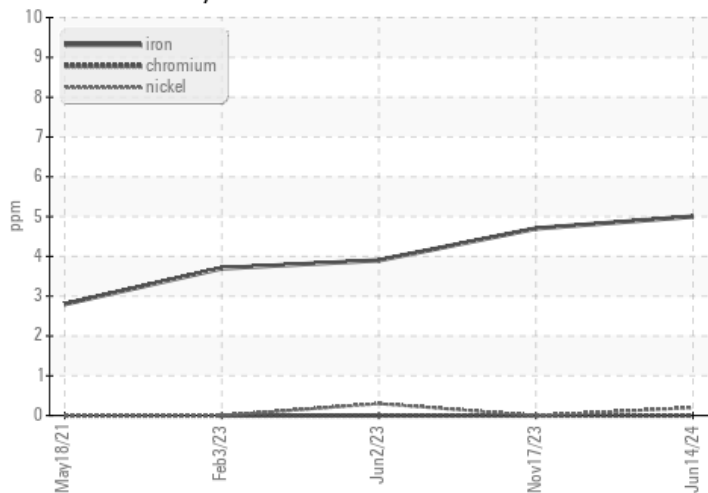
Signed: Kevin Marson

Report Date: 24 Jun 2024

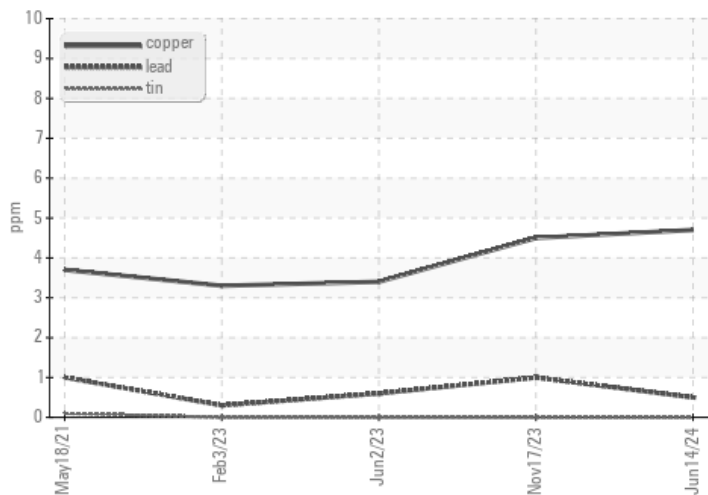


### Graphs

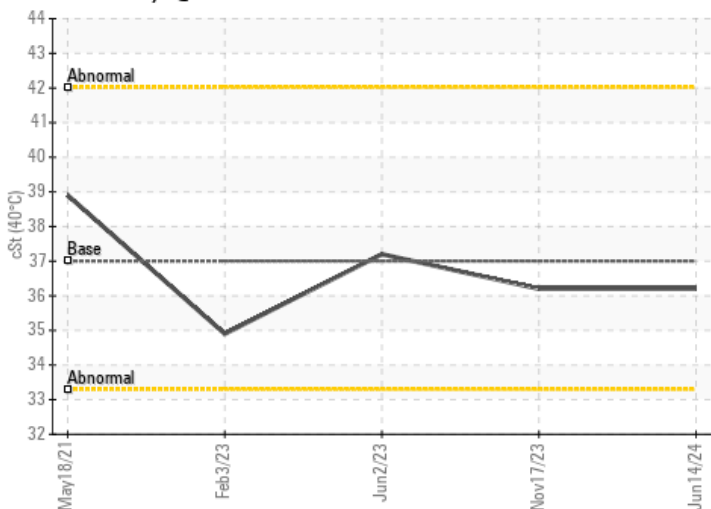
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

