

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A944C063266 - Hydraulic System

Sample No: LH0274445

Oil Type: LIEBHERR HYDRAULIC HVI



SAMPLE INFORMATION

Sample Number	LH0274445	LH	LH0133867	LH0130336
Sample Date	04 Aug 2023	21 Mar 2019	17 Oct 2018	13 Jul 2018
Machine Hours	19020	12983	12442	11950
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

Posner Metals

610 Beach Rd.
Hamilton, ON
CA L8H 3L1
Contact: Oscar Riano
oscar@posner.ca
T: (905)971-6754
F: (905)549-6044



OIL CONDITION

Visc @ 40°C	cSt	43.2	45.1	45.6	43.3
-------------	-----	------	------	------	------



CONTAMINATION

Particles >4µm	15929	33194	6328	2836
Particles >6µm	911	664	731	439
Particles >14µm	21	34	27	14
ISO 4406:1999 (c)	21/17/12	22/17/12	20/17/12	19/16/11
Silicon ppm	<1	2	2	2
Sodium ppm	<1	2	2	3
Potassium ppm	<1	<1	<1	0



WEAR METALS

Iron ppm	6	17	17	20
Copper ppm	1	3	3	4
Lead ppm	0	<1	<1	<1
Tin ppm	0	0	0	0
Aluminum ppm	<1	<1	<1	<1
Chromium ppm	2	5	4	4
Molybdenum ppm	7	2	1	<1
Nickel ppm	0	0	<1	<1
Titanium ppm	3	7	8	2
Silver ppm	0	0	0	0
Manganese ppm	0	<1	<1	<1
Vanadium ppm	0	0	0	0



ADDITIVES

Calcium ppm	250	289	298	206
Magnesium ppm	33	45	40	8
Zinc ppm	505	521	505	452
Phosphorus ppm	446	416	405	375
Barium ppm	<1	0	0	0
Boron ppm	15	13	15	4

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. 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. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: POSHAM
Unique No: 5619925
Signed: Kevin Marson
Report Date: 10 Aug 2023

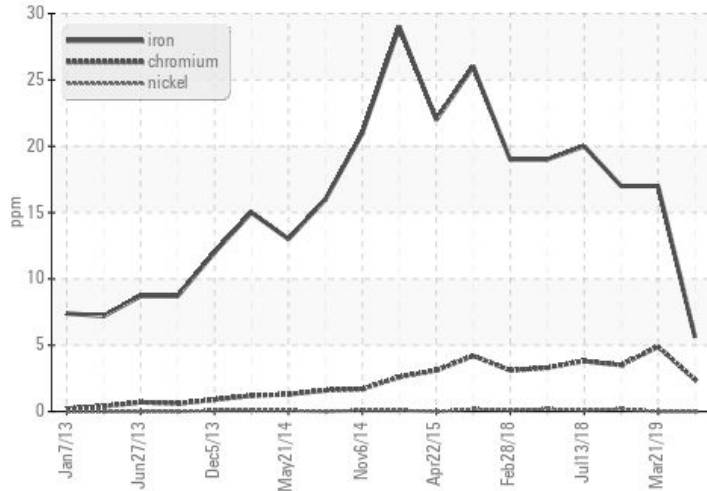
LIEBHERR

CONSTRUCTION EQUIPMENT

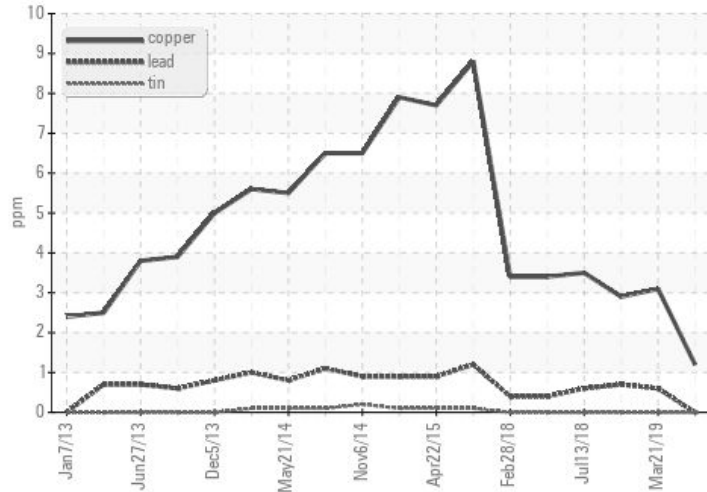


GRAPHS

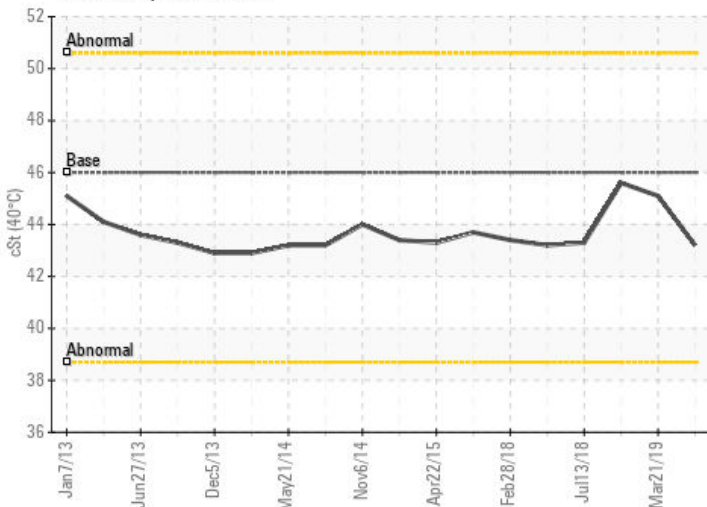
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

