

LIEBHERR

CONSTRUCTION EQUIPMENT



[(363880)] LIEBHERR L550 064917-1756 - Hydraulic System

Sample No: LH0279050

Oil Type: PETRO CANADA HYDREX AW 46



SAMPLE INFORMATION

Sample Number	LH0279050	LH	LH0261039	LH0250800
Sample Date	22 Jan 2024	13 Nov 2023	15 Jun 2023	03 Feb 2023
Machine Hours	5982	5500	4922	4136
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Changed	Not Changd
Sample Status	ATTENTION	NORMAL	ATTENTION	ATTENTION

ARMAND DUHAMEL et FILS INC.
 778 RUE DE L' EGLISE
 ST-IGNACE-STANDBRIDGE, QC
 CA J0J 1Y0
 Contact:



OIL CONDITION

Visc @ 40°C	cSt	45.6	45.5	44.1	44.4

T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		27115	9162	21659	35434
Particles >6µm		4019	1765	66	3021
Particles >14µm		82	153	3	178
ISO 4406:1999 (c)		22/19/14	20/18/14	22/13/9	22/19/15
Silicon	ppm	3	2	4	4
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	1	0	1	<1

Diagnosis

We recommend you service the filters on this component. 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. There is a light amount of silt (particulates < 14 microns in size) present in the oil. 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.



WEAR METALS

PQ		---	---	---	0
Iron	ppm	11	10	17	20
Copper	ppm	2	2	3	3
Lead	ppm	4	5	5	5
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	1	2	2
Chromium	ppm	4	3	7	6
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	461	465	862	921
Magnesium	ppm	9	9	17	16
Zinc	ppm	743	740	598	602
Phosphorus	ppm	603	587	554	569
Barium	ppm	0	<1	<1	<1
Boron	ppm	<1	<1	<1	<1

Depot: ARMSTI
Unique No: 5720709
Signed: Bill Quesnel
Report Date: 30 Jan 2024

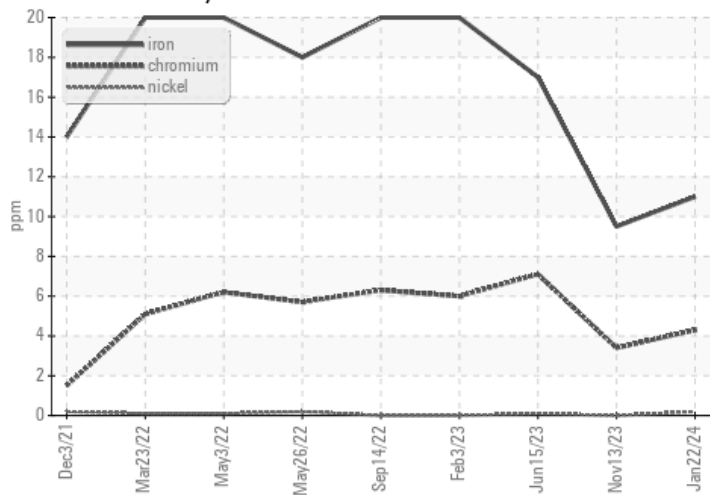
LIEBHERR

CONSTRUCTION EQUIPMENT

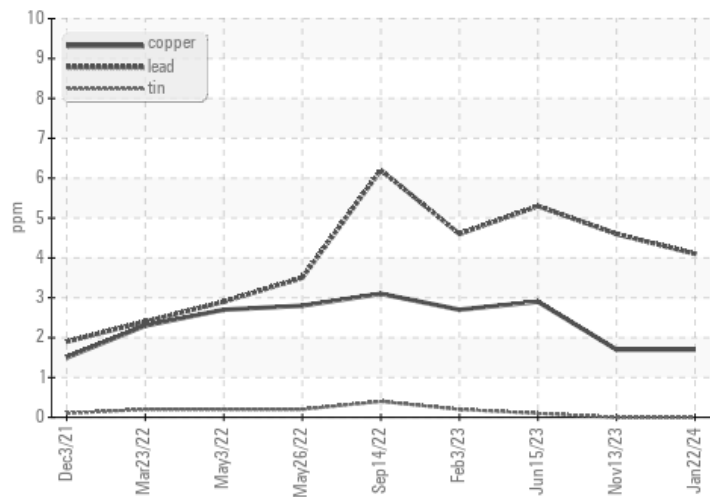


GRAPHS

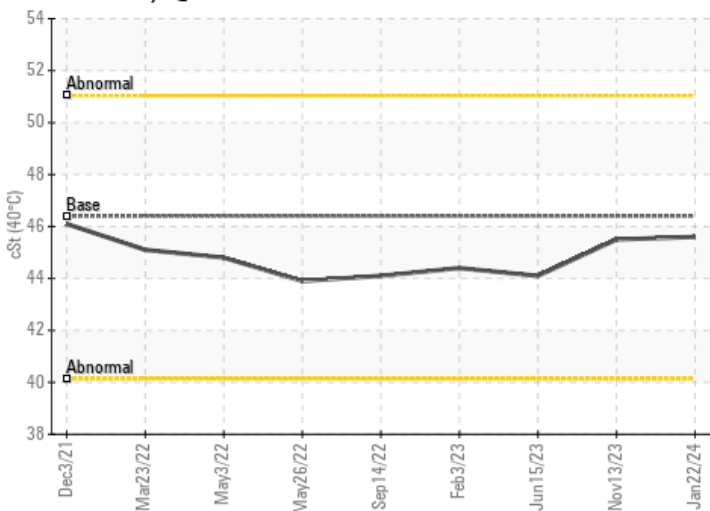
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

