

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 103210-1217 - Hydraulic System

Sample No: LH0284111

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



STELLA JONES INC
 25 BRAID ST
 NEW WESTMINSTER, BC
 CA V3L 3P2
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SAMPLE INFORMATION

Sample Number	LH0284111	LH0260486	LH0260634	LH0234061
Sample Date	13 Mar 2024	21 Aug 2023	14 Apr 2023	28 Feb 2023
Machine Hours	21337	20729	19540	19005
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	SEVERE	SEVERE	SEVERE	SEVERE



OIL CONDITION

Visc @ 40°C	cSt	44.1	44.6	44.7	44.6
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CONTAMINATION

Water	%	NEG	NEG	NEG	0.030
Particles >4µm		4542	4381	11826	64261
Particles >6µm		862	73	3004	17825
Particles >14µm		38	7	122	1007
ISO 4406:1999 (c)		19/17/12	19/13/10	21/19/14	23/21/17
Silicon	ppm	3	3	3	3
Sodium	ppm	3	4	4	4
Potassium	ppm	1	<1	<1	0



WEAR METALS

PQ		15	14	10	10
Iron	ppm	96	128	110	98
Copper	ppm	7	8	10	10
Lead	ppm	<1	1	1	1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	2	2	2
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	1	2	2	2
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	154	173	204	217
Magnesium	ppm	3	4	4	3
Zinc	ppm	557	481	444	451
Phosphorus	ppm	455	408	390	408
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	<1	<1

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Re-sampling is suggested to confirm test results prior to significant maintenance activities being performed. Please indicate that this is a resample on your Sample Information Form (SIF). Iron ppm levels are severe. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: STE25NEW
 Unique No: 5747497
 Signed: Kevin Marson
 Report Date: 18 Mar 2024

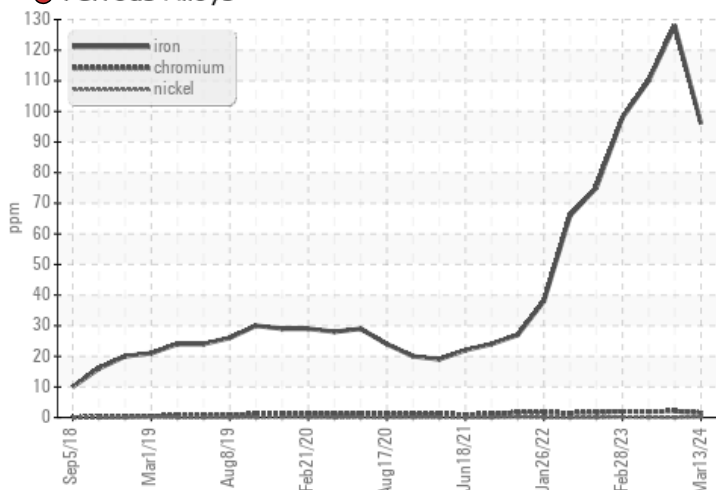
LIEBHERR

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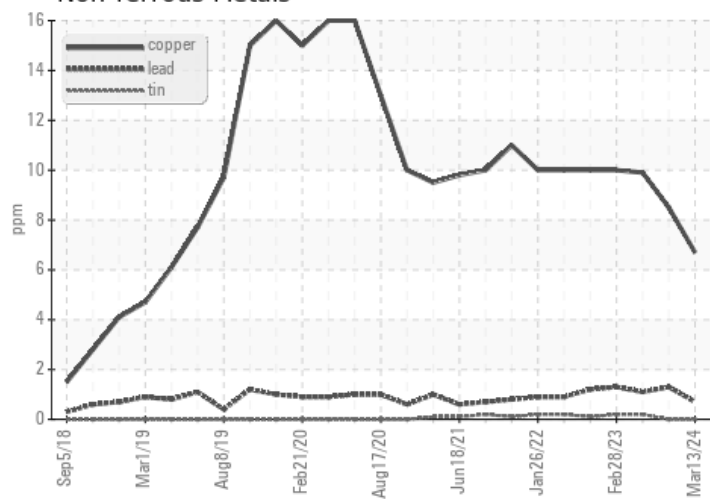


GRAPHS

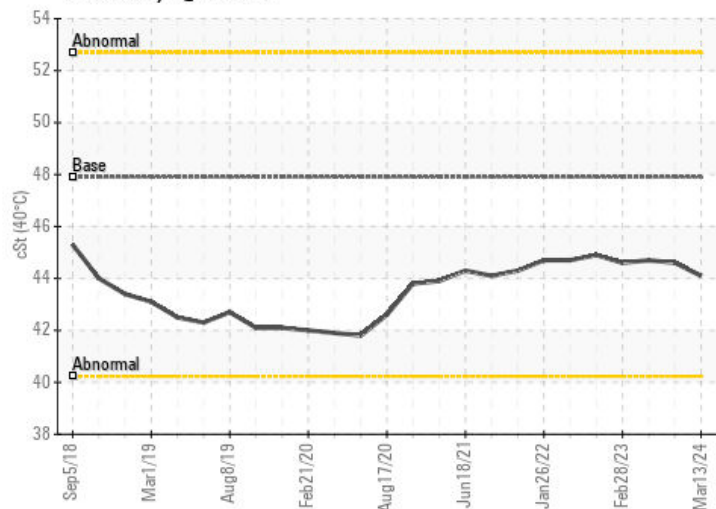
● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

