

LIEBHERR

CONSTRUCTION EQUIPMENT



[(346464)] LIEBHERR LH30M 124535-1253 - Hydraulic System

Sample No: LH0286585

Oil Type: {unknown}



JOHN ROSS & SONS LTD.
 85 GLASSY AVENUE
 TRURO, NS
 CA B2N 6Z1
 Contact: Service Manager



Sample Information

Sample Number	LH0286585	LH0269644	LH0224225	LH0194911
Sample Date	16 Mar 2024	18 Oct 2023	04 Apr 2022	03 Oct 2021
Machine Hours	6121	5046	2025	1068
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	42.0	42.1	43.3	44.0
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T:
F:



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1655	4191	64602	3501
Particles >6µm		453	671	7110	543
Particles >14µm		34	15	64	33
ISO 4406:1999 (c)		18/16/12	19/17/11	23/20/13	19/16/12
Silicon	ppm	1	2	2	2
Sodium	ppm	4	4	2	2
Potassium	ppm	2	<1	1	2

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. Iron ppm levels are abnormal. 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.



Wear Metals

PQ		0	0	---	---
Iron	ppm	79	71	48	31
Copper	ppm	6	6	4	3
Lead	ppm	<1	2	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	1	1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



Additives

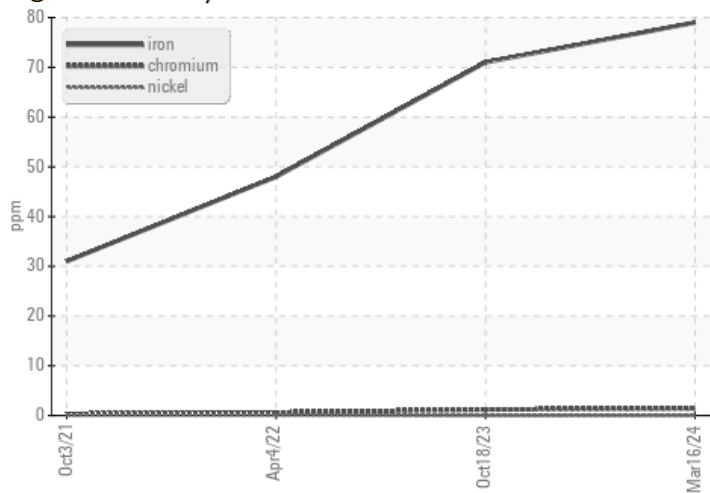
Calcium	ppm	1245	1237	1355	1384
Magnesium	ppm	9	8	6	5
Zinc	ppm	650	646	672	697
Phosphorus	ppm	539	531	606	643
Barium	ppm	0	<1	0	0
Boron	ppm	2	2	2	1

Depot: JOHTRU
Unique No: 5760154
Signed: Kevin Marson
Report Date: 08 Apr 2024

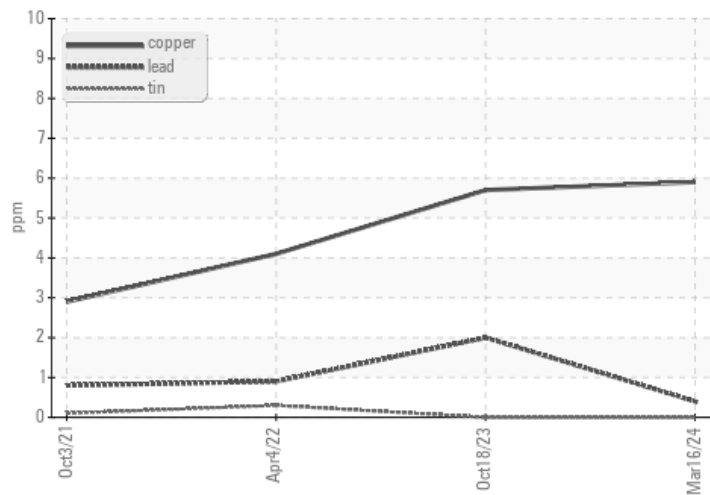


Graphs

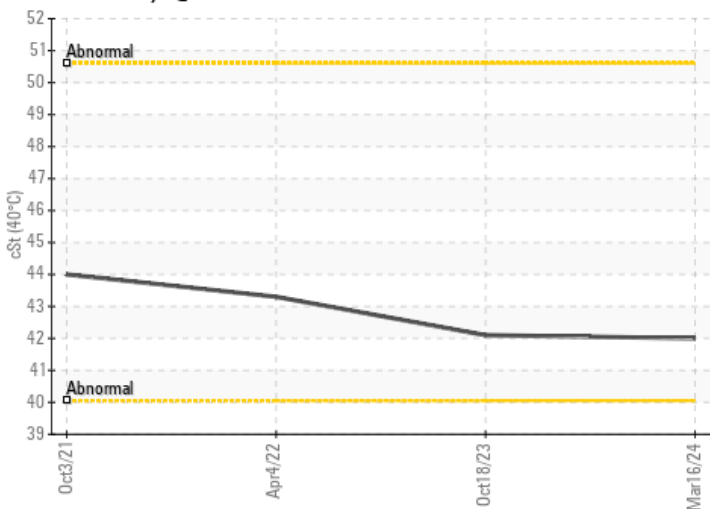
● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

