LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 113527-1216 - Hydraulic System

Sample No: LH0284315

Oil Type: AW HYDRAULIC OIL ISO 46

LIEBHERR CANADA LTEE
444 AVENUE DE LA FRICHE
DOLBEAU-MISTASSINI, QC
CA G8L 3M7
Contact: Martin Gagnon
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T:
F: (418)276-9844

SAMPLE INFORMATION

Sample Number		**LH0284315**	LH	---	---
Sample Date		**13 Mar 2024**	13 Mar 2023	---	---
Machine Hours		**6512**	0	---	---
Oil Hours		**0**	0	---	---
Oil Changed		**Not Changd**	N/A	---	---
Sample Status		**NORMAL**	ABNORMAL	---	---

OIL CONDITION

Visc @ 40°C	cSt	**39.9**	43.0	---	---
Visc @ 100°C	cSt	**---**	7.4	---	---
Viscosity Index (VI)	Scale	**---**	137	---	---

CONTAMINATION

Water	%	**NEG**	NEG	---	---
Particles >4µm		**6456**	96755	---	---
Particles >6µm		**1398**	12267	---	---
Particles >14µm		**46**	40	---	---
ISO 4406:1999 (c)		**20/18/13**	24/21/12	---	---
Silicon	ppm	**<1**	2	---	---
Sodium	ppm	**<1**	2	---	---
Potassium	ppm	**<1**	<1	---	---

WEAR METALS

PQ		**---**	12	---	---
Iron	ppm	**44**	82	---	---
Copper	ppm	**2**	4	---	---
Lead	ppm	**0**	<1	---	---
Tin	ppm	**0**	<1	---	---
Aluminum	ppm	**<1**	<1	---	---
Chromium	ppm	**<1**	2	---	---
Molybdenum	ppm	**0**	0	---	---
Nickel	ppm	**0**	0	---	---
Titanium	ppm	**0**	0	---	---
Silver	ppm	**0**	0	---	---
Manganese	ppm	**<1**	1	---	---
Vanadium	ppm	**0**	<1	---	---

ADDITIVES

Calcium	ppm	**276**	743	---	---
Magnesium	ppm	**2**	4	---	---
Zinc	ppm	**625**	407	---	---
Phosphorus	ppm	**522**	445	---	---
Barium	ppm	**0**	0	---	---
Boron	ppm	**<1**	<1	---	---

Diagnosis

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. The condition of the oil is acceptable for the time in service.

Depot: LBADOL
Unique No: 5747495
Signed: Kevin Marson
Report Date: 18 Mar 2024

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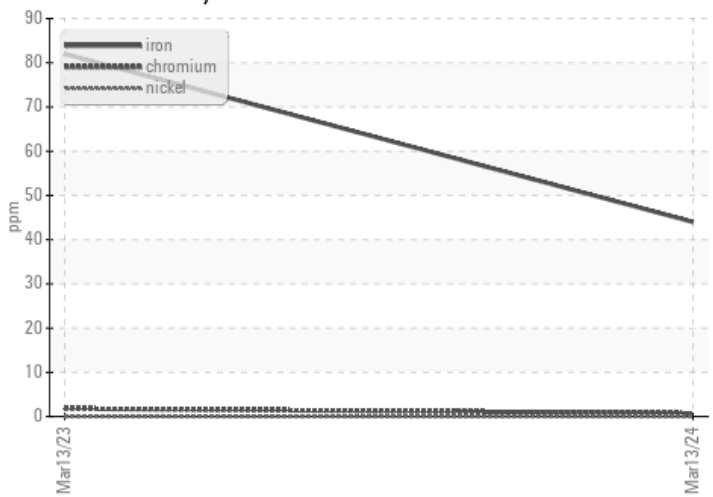
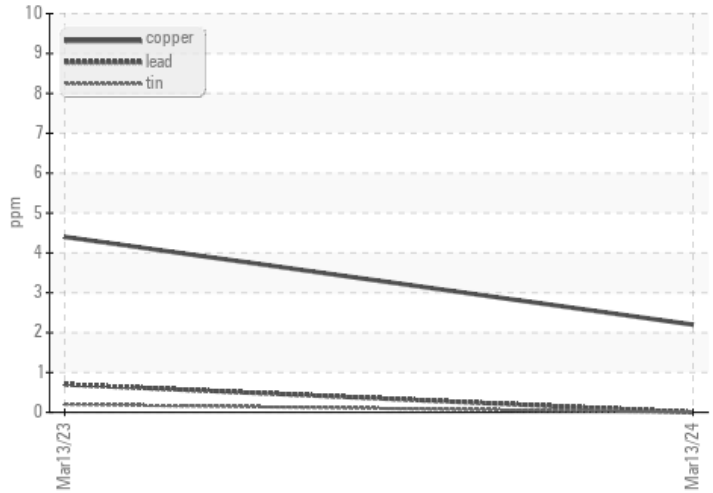
GRAPHS

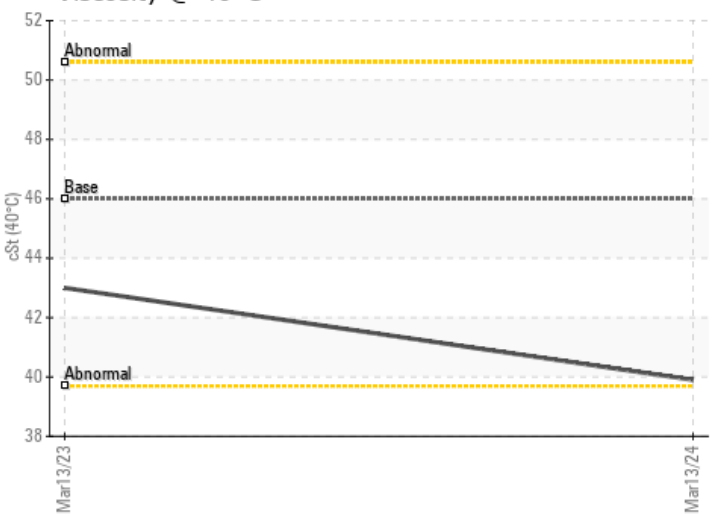
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count