

LIEBHERR

CONSTRUCTION EQUIPMENT



[(358629)] LIEBHERR LH50M 133653-1216 - Hydraulic System

Sample No: LH

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH	LH0153032	LH0250034	LH0224131
Sample Date	29 Aug 2023	07 Jun 2023	26 Jan 2023	22 Dec 2022
Machine Hours	3000	1474	10000	9439
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Changed	Not Changd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	ATTENTION

PF Resolu Canada Inc.
5850 avenue des jardins
La Dore, QC
CA G8J 1B4
Contact: Dominic Caron



OIL CONDITION

Visc @ 40°C	cSt	43.4	44.5	45.9	45.5
Acid Number (AN)	mg KOH/g	---	1.51	---	---

T:
F:



CONTAMINATION

Particles >4µm		52453	30320	427	38605
Particles >6µm		6804	12614	92	4401
Particles >14µm		17	2044	13	192
ISO 4406:1999 (c)		23/20/11	22/21/18	16/14/11	22/19/15
Silicon	ppm	4	4	4	4
Sodium	ppm	2	2	2	1
Potassium	ppm	1	2	<1	<1

Diagnosis

Nous recommandons le remplacement des filtres de ce composant. Confirm the source of the lubricant being utilized for top-up/fill. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. Les taux d'usure de tous les composants sont normaux. Il y a une quantité modérée de particules (de 4 à 14 microns) dans l'huile. Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. L'huile peut encore servir si la contamination peut être réduite à un niveau acceptable.



WEAR METALS

Iron	ppm	11	9	9	9
Copper	ppm	3	2	2	2
Lead	ppm	1	<1	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	1	<1	1	1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1508	1592	1667	1586
Magnesium	ppm	5	4	6	6
Zinc	ppm	736	740	922	884
Phosphorus	ppm	687	730	805	779
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	1	2

Depot: ABILAD
Unique No: 5633461
Signed: Kevin Marson
Report Date: 06 Sep 2023

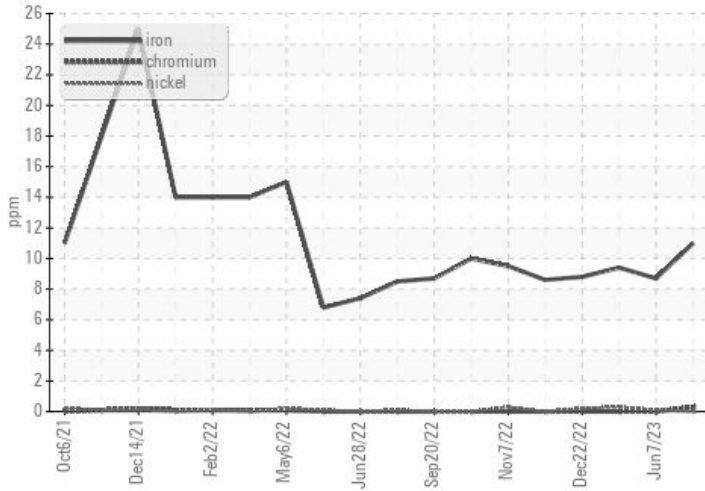
LIEBHERR

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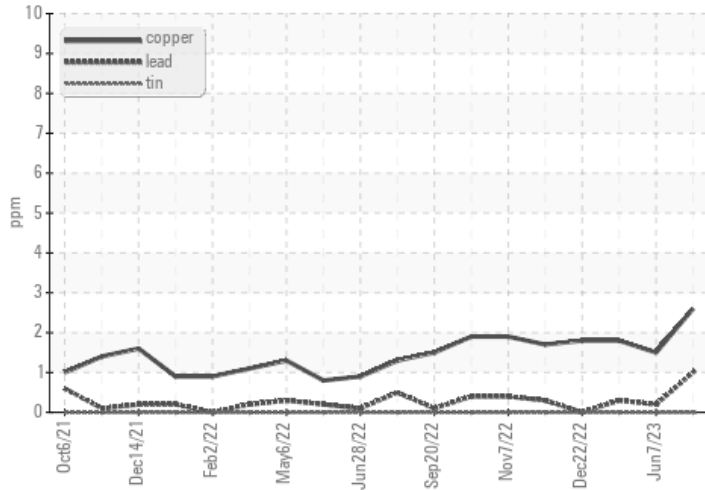


GRAPHS

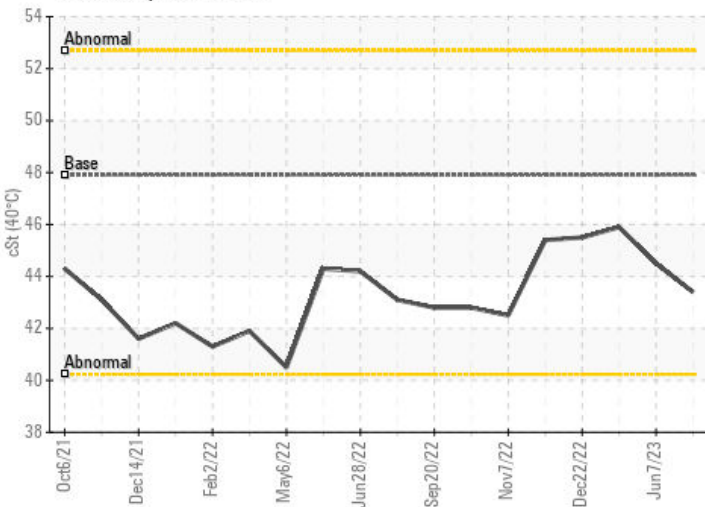
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

