LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 144376-1216 - Hydraulic System

Sample No: LH0248796

Oil Type: AW HYDRAULIC OIL ISO 22

Services Forestiers RGT Inc.
1053 Boul. Ducharme
La Tuque, QC
CA G9X 3C3
Contact: Service Manager

T:
F:

SAMPLE INFORMATION

Sample Number		**LH0248796**	LH0248808	LH0248820	---
Sample Date		**02 Aug 2023**	13 Apr 2023	28 Feb 2023	---
Machine Hours		**2092**	1000	530	---
Oil Hours		**1000**	0	0	---
Oil Changed		**Not Changd**	Not Changd	Not Changd	---
Sample Status		**ABNORMAL**	ABNORMAL	ATTENTION	---

OIL CONDITION

Visc @ 40°C	cSt	**31.4**	32.5	37.6	---
Acid Number (AN)	mg KOH/g	**0.57**	0.76	1.17	---

CONTAMINATION

Water	%	**---**	0.689	---	---
Particles >4µm		**983**	25544	9999	---
Particles >6µm		**298**	10211	3880	---
Particles >14µm		**24**	673	630	---
ISO 4406:1999 (c)		**17/15/12**	22/21/17	20/19/16	---
Silicon	ppm	**3**	2	2	---
Sodium	ppm	**2**	<1	<1	---
Potassium	ppm	**<1**	<1	<1	---

WEAR METALS

Iron	ppm	**30**	19	16	---
Copper	ppm	**2**	3	1	---
Lead	ppm	**<1**	1	0	---
Tin	ppm	**0**	0	0	---
Aluminum	ppm	**<1**	<1	<1	---
Chromium	ppm	**1**	<1	<1	---
Molybdenum	ppm	**<1**	<1	<1	---
Nickel	ppm	**0**	0	<1	---
Titanium	ppm	**0**	<1	<1	---
Silver	ppm	**0**	0	0	---
Manganese	ppm	**<1**	<1	<1	---
Vanadium	ppm	**0**	0	0	---

ADDITIVES

Calcium	ppm	**686**	796	855	---
Magnesium	ppm	**40**	33	34	---
Zinc	ppm	**531**	533	554	---
Phosphorus	ppm	**501**	524	539	---
Barium	ppm	**0**	0	0	---
Boron	ppm	**2**	2	2	---

Diagnosis

Échantillonner de nouveau l`équipement au prochain intervalle de vidange afin d`en surveiller la condition.Les taux d`usure de tous les composants sont normaux. La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La propreté du système et du fluide est acceptable. La viscosité de l'échantillon se situe dans la portée de l'SAE 10W; nous vous conseillons de vérifier. Le AN est acceptable pour ce fluide. L`état de l`huile permet d`en prolonger l`utilisation.

Depot: SERLAT
Unique No: 5633462
Signed: Kevin Marson
Report Date: 06 Sep 2023

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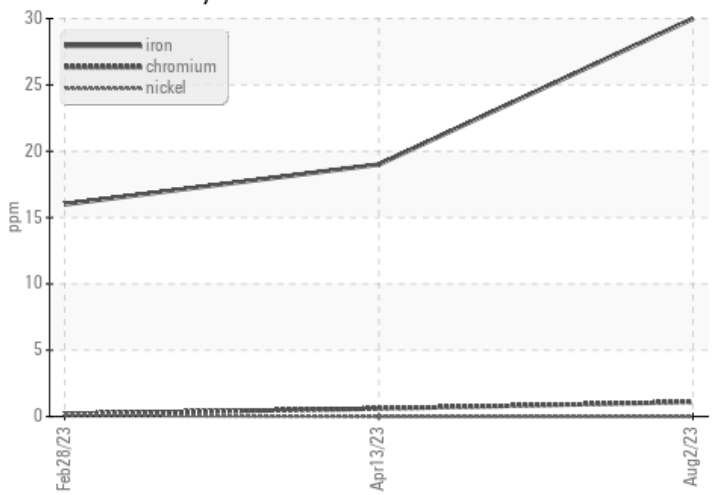
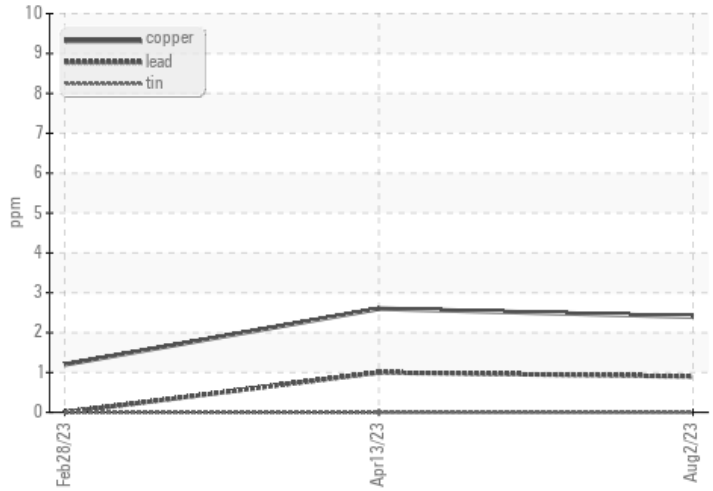
GRAPHS

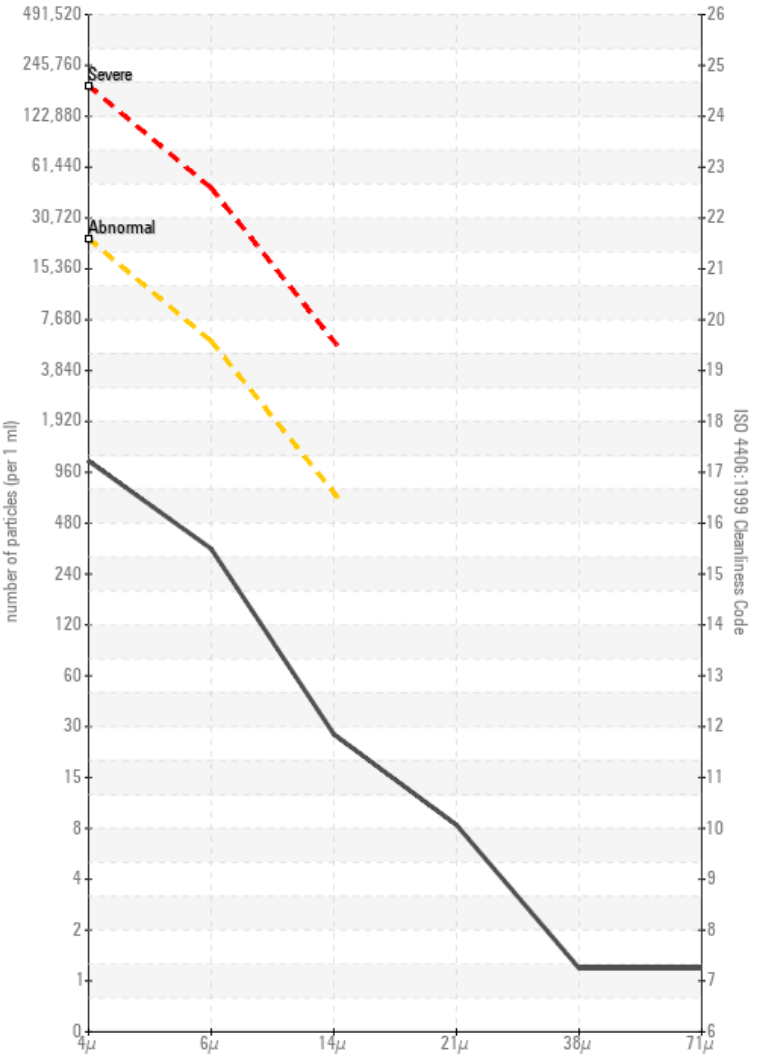
Ferrous Alloys



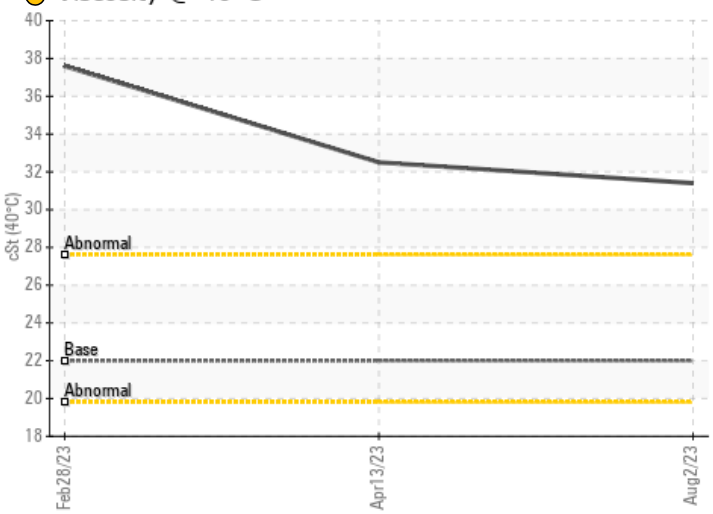
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number