

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R920 045555-1705 - Hydraulic System

Sample No: LH0274132

Oil Type: NOT GIVEN



SAMPLE INFORMATION

Sample Number	LH0274132	LH0165215	LH0165206	---
Sample Date	24 Aug 2023	14 Jan 2021	29 Jun 2020	---
Machine Hours	2972	1231	472	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	Not Changd	Not Changd	---
Sample Status	NORMAL	NORMAL	ATTENTION	---

Entreprises Hans Gruenwald Inc.

3756 chein des Sables

Vaudreuil-Dorion, QC

CA J7V 0K1

Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	42.6	43.2	45.4	---
Acid Number (AN)	mg KOH/g	---	1.55	1.61	---

T:

F:



CONTAMINATION

Particles >4µm		16680	14826	28079	---
Particles >6µm		3832	505	1715	---
Particles >14µm		85	12	69	---
ISO 4406:1999 (c)		21/19/14	21/16/11	22/18/13	---
Silicon	ppm	10	8	7	---
Sodium	ppm	3	2	0	---
Potassium	ppm	1	1	1	---

Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Veuillez préciser la marque, le type et la viscosité de l'huile lors de votre prochain échantillon. 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. L'état de l'huile est acceptable pour la durée de service.



WEAR METALS

Iron	ppm	13	10	7	---
Copper	ppm	7	5	3	---
Lead	ppm	1	1	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	2	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1308	1320	1329	---
Magnesium	ppm	7	7	6	---
Zinc	ppm	706	733	723	---
Phosphorus	ppm	610	593	638	---
Barium	ppm	0	<1	<1	---
Boron	ppm	<1	<1	<1	---

Depot: ENT375VAU

Unique No: 5632215

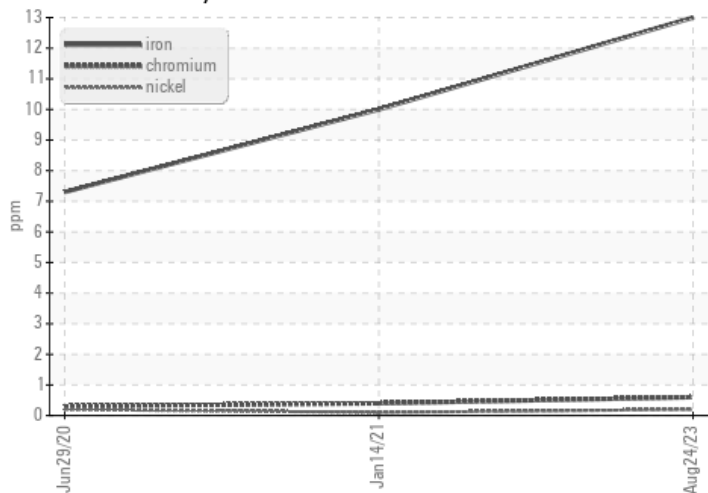
Signed: Wes Davis

Report Date: 30 Aug 2023

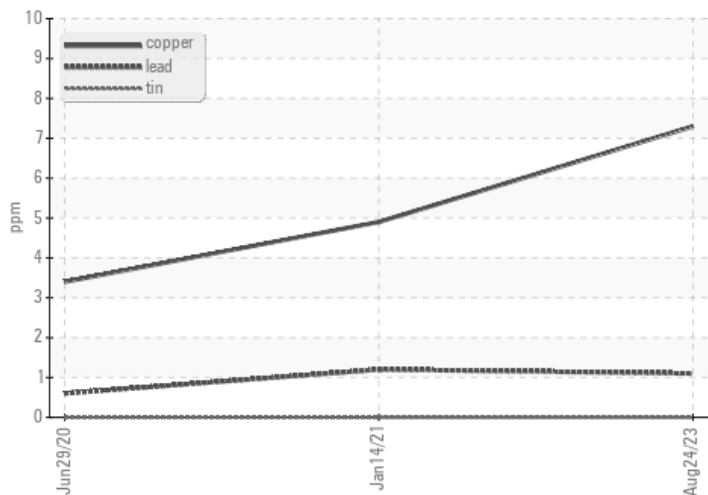


GRAPHS

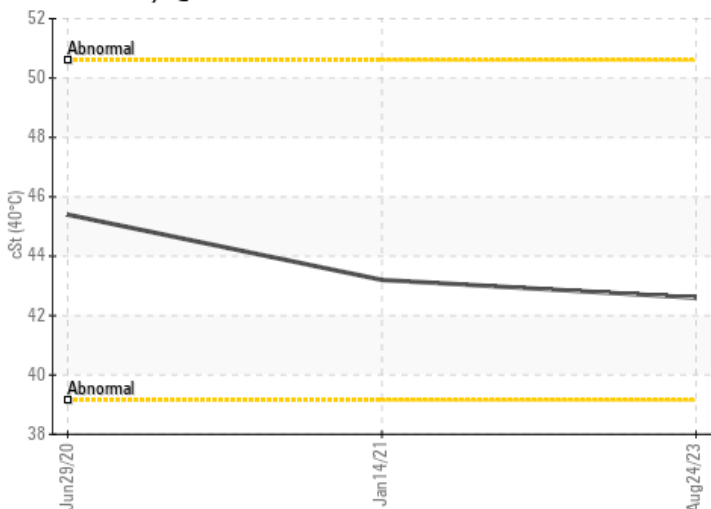
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

