

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L538 022866-433 - Hydraulic System

Sample No: LH0249945

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0249945	LH0224015	LH0234206	LH0044909
Sample Date	27 Nov 2023	24 Mar 2023	08 Dec 2022	11 Oct 2022
Machine Hours	20000	19029	18432	18200
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	ABNORMAL

RMR Regie des Matierels Residuelles du LSU
1855 rue Castonguay
Robertval, QC
CA G8H 2M9
Contact: Jean-Sebastien Nadeau
jean-sebastien.nadeau@rmrlac.qc.ca
T: (418)669-0513
F: (418)212-8010



OIL CONDITION

Visc @ 40°C	cSt	39.6	40.5	41.8	42.0
Visc @ 100°C	cSt	---	---	8.1	---
Viscosity Index (VI)	Scale	---	---	171	---



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		14151	22833	10479	20013
Particles >6µm		1190	2078	332	4648
Particles >14µm		66	132	15	386
ISO 4406:1999 (c)		21/17/13	22/18/14	21/16/11	22/19/16
Silicon	ppm	2	2	1	<1
Sodium	ppm	<1	2	<1	<1
Potassium	ppm	<1	1	0	<1



WEAR METALS

Iron	ppm	8	8	6	6
Copper	ppm	4	4	4	3
Lead	ppm	1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	4	4	2	2
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	112	126	125	107
Magnesium	ppm	2	2	3	2
Zinc	ppm	685	722	721	719
Phosphorus	ppm	522	613	609	609
Barium	ppm	<1	0	0	0
Boron	ppm	<1	<1	<1	<1

Diagnosis

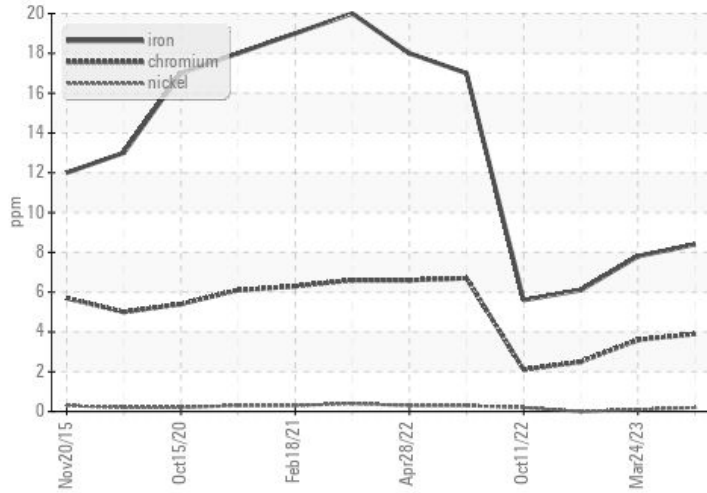
Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La propreté du système et du fluide est acceptable. L'état de l'huile est acceptable pour la durée de service.

Depot: RMRROB
Unique No: 5684383
Signed: Wes Davis
Report Date: 29 Nov 2023

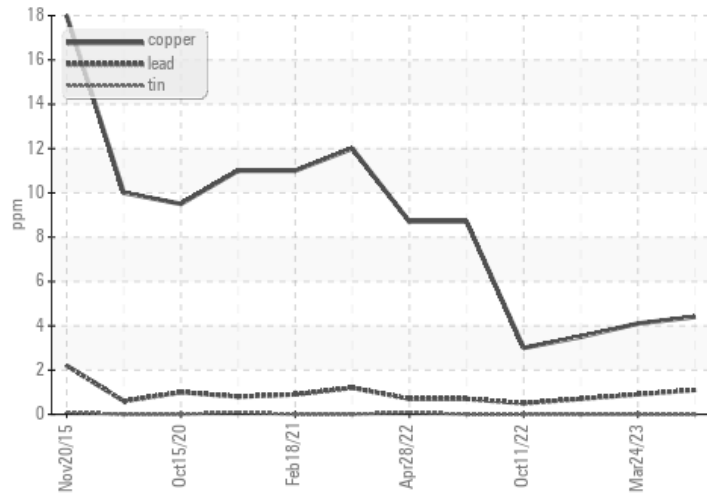


GRAPHS

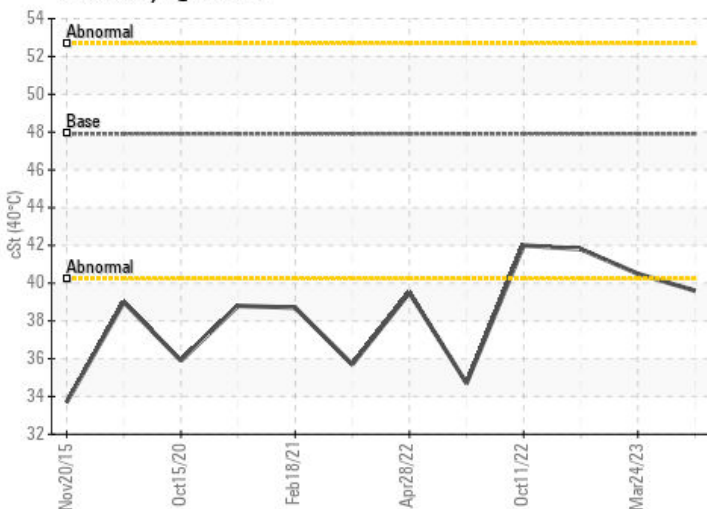
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

