

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R918LC 047 212-1721- Hydraulic System

Sample No: LH0284031

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0284031	LH0221996	LH0185908	---
Sample Date	01 Mar 2024	11 Mar 2022	10 Feb 2021	---
Machine Hours	3066	1505	491	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	Not Changd	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

WESTERRA ENTERPRISES INC.
 33171 2ND AVENUE
 MISSION, BC
 CA V2V 6T8
 Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	42.3	43.6	45.1	---
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T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		4066	6112	18844	---
Particles >6µm		845	210	1288	---
Particles >14µm		42	17	26	---
ISO 4406:1999 (c)		19/17/13	20/15/11	21/17/12	---
Silicon	ppm	6	6	5	---
Sodium	ppm	2	1	1	---
Potassium	ppm	<1	<1	1	---

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. 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. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	10	8	7	---
Copper	ppm	6	4	3	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	0	<1	0	---
Aluminum	ppm	1	<1	<1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	<1	<1	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

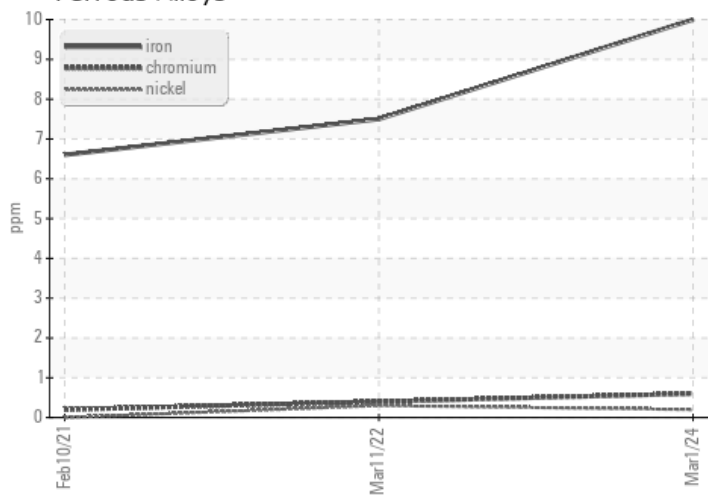
Calcium	ppm	961	1085	1203	---
Magnesium	ppm	5	6	6	---
Zinc	ppm	653	721	740	---
Phosphorus	ppm	568	628	609	---
Barium	ppm	0	0	0	---
Boron	ppm	<1	<1	<1	---

Depot: SUMMIS
 Unique No: 5746227
 Signed: Kevin Marson
 Report Date: 12 Mar 2024

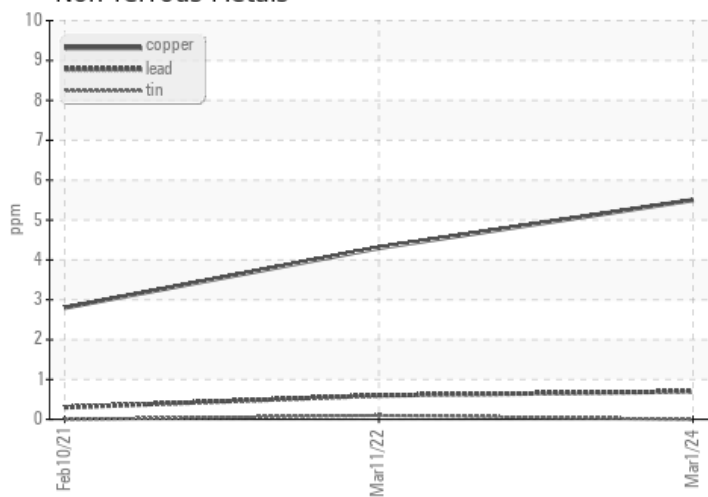


GRAPHS

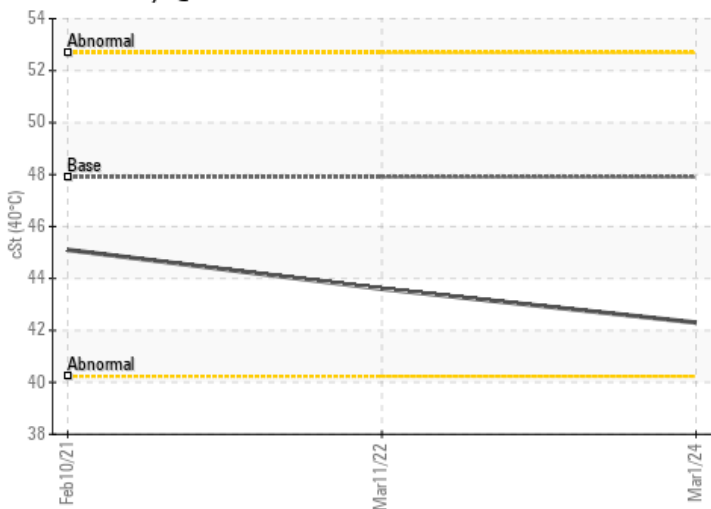
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

