

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C044096 - Hydraulic System

Sample No: LH0284084

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0284084	LH0260455	LH0226692	LH0173118
Sample Date	15 Feb 2024	20 Jun 2023	26 Apr 2022	24 Jun 2020
Machine Hours	29318	28300	26107	22582
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

Rypac Aluminum Recycling

11849 Tannery Road
Surrey, BC
CA V3V 3W8
Contact: Craig Merritt
rypac2@shaw.ca

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F:



OIL CONDITION

Visc @ 40°C	cSt	50.1	43.2	43.8	42.7
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1113	3391	13193	24846
Particles >6µm		87	580	2366	5782
Particles >14µm		6	38	161	550
ISO 4406:1999 (c)		17/14/10	19/16/12	21/18/15	22/20/16
Silicon	ppm	<1	<1	<1	<1
Sodium	ppm	<1	<1	<1	0
Potassium	ppm	1	<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	11	11	17	18
Copper	ppm	2	2	3	4
Lead	ppm	<1	<1	1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	1	1	2	2
Molybdenum	ppm	<1	0	0	0
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	59	40	40	42
Magnesium	ppm	14	1	<1	<1
Zinc	ppm	394	412	386	391
Phosphorus	ppm	373	353	348	346
Barium	ppm	0	0	0	<1
Boron	ppm	0	<1	<1	<1

Depot: RYPSUR
Unique No: 5734550
Signed: Wes Davis
Report Date: 23 Feb 2024

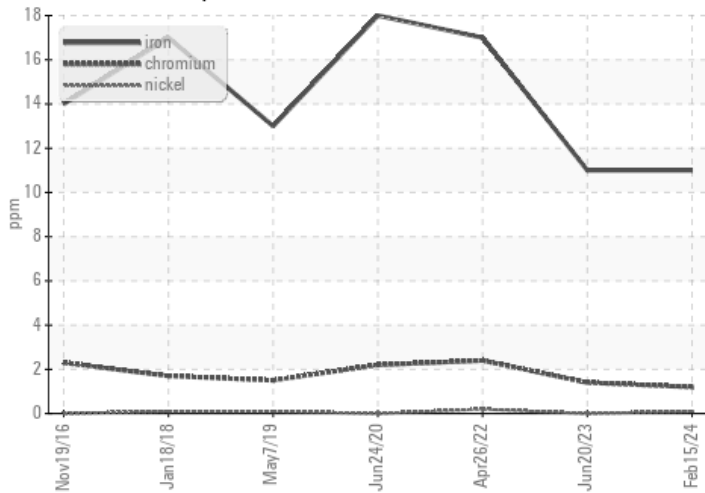
LIEBHERR

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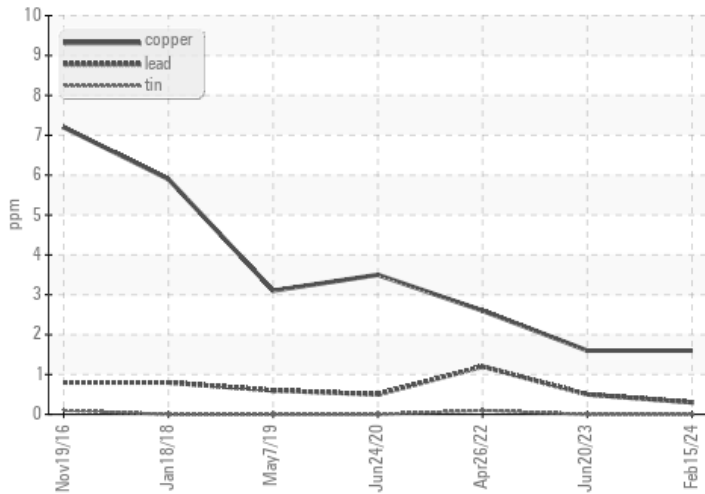


GRAPHS

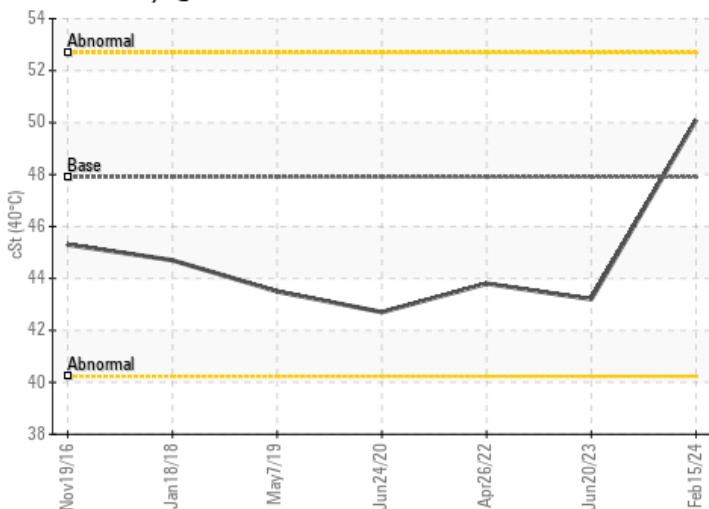
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

