

LIEBHERR

CONSTRUCTION EQUIPMENT



116431-1217 - Hydraulic System

Sample No: LH0270564

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0270564	LH0202727	LH0239240	LH0221650
Sample Date	25 Sep 2023	09 May 2023	29 Aug 2022	06 Jun 2022
Machine Hours	7608	7133	6053	5561
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

American Iron and Metal

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OIL CONDITION

Visc @ 40°C	cSt	42.0	42.1	42.2	42.2
		●	●	●	●



CONTAMINATION

Particles >4µm		● 118779	● 3802	● 1236	● 15198
Particles >6µm		● 9724	● 668	● 164	● 1730
Particles >14µm		● 202	● 17	● 7	● 23
ISO 4406:1999 (c)		24/20/15	19/17/11	17/15/10	21/18/12
Silicon	ppm	● 2	● 1	● 1	● 2
Sodium	ppm	● 2	● 2	● 2	● 2
Potassium	ppm	● <1	● 0	● 11	● 0



WEAR METALS

PQ		● 6	● 11	● 12	● 0
Iron	ppm	● 74	● 105	● 105	● 81
Copper	ppm	● 3	● 4	● 4	● 4
Lead	ppm	● <1	● <1	● 1	● <1
Tin	ppm	● 0	● <1	● 0	● <1
Aluminum	ppm	● <1	● <1	● <1	● <1
Chromium	ppm	● <1	● 1	● 1	● 1
Molybdenum	ppm	● <1	● 0	● 0	● <1
Nickel	ppm	● 0	● <1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	<1	0
Manganese	ppm	● <1	● 2	● 2	● 2
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	● 329	● 562	● 655	747
Magnesium	ppm	● 9	● 4	● 4	● 5
Zinc	ppm	● 679	● 750	● 728	● 721
Phosphorus	ppm	● 546	● 650	● 596	● 616
Barium	ppm	● <1	● 0	● 0	● 0
Boron	ppm	● 1	● <1	● <1	● 2

Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: BAKOTT
Unique No: 5646642
Signed: Kevin Marson
Report Date: 28 Sep 2023

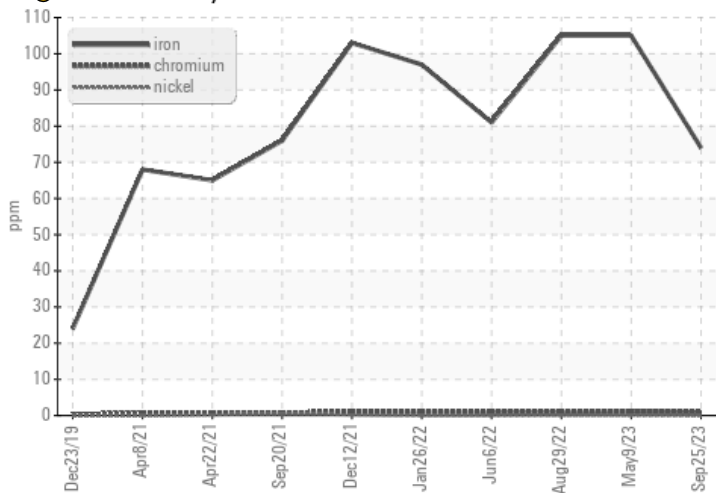
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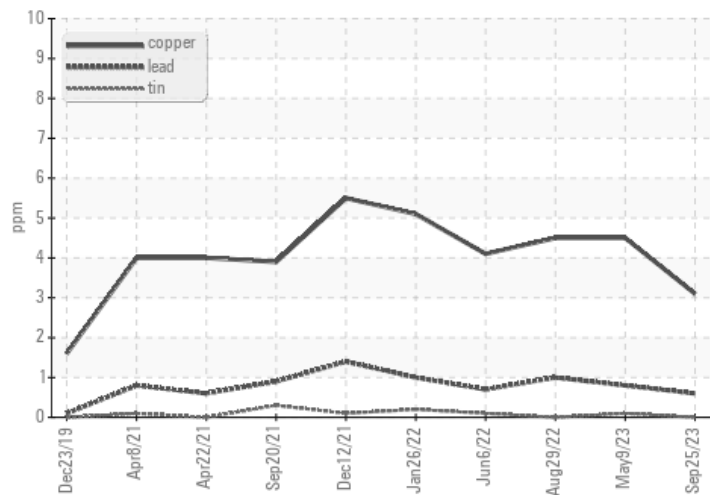


GRAPHS

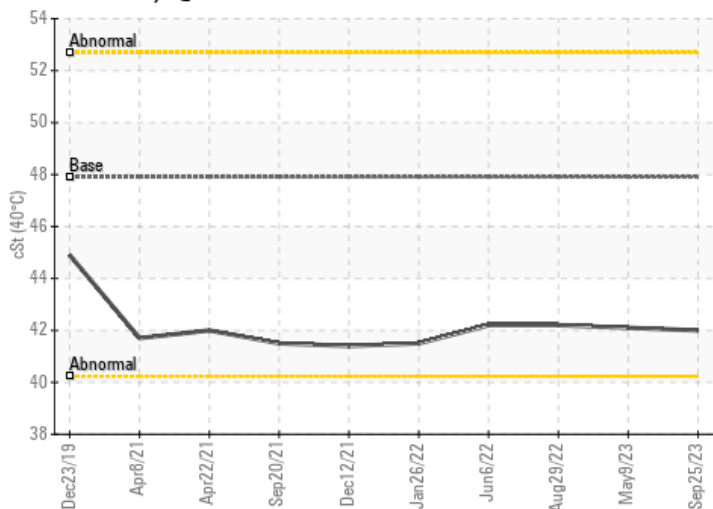
● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



● Particle Count

