

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L566 036436 - Hydraulic System

Sample No: LH0090431

Oil Type: PETRO CANADA HYDREX AW 68



Sample Information

Sample Number	LH0090431	LH0038772	LH0145592	---
Sample Date	21 Mar 2024	10 Dec 2021	07 Jun 2019	---
Machine Hours	7312	6471	0	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Not Changd	Not Changd	---
Sample Status	ABNORMAL	ATTENTION	NORMAL	---

McCain Farms
P.O. Box 409
Bath, NB
CA E7J 2N2
Contact: Nathan
nathan.ogden@mccain.ca
T: (506)278-5753
F:



Oil Condition

Visc @ 40°C	cSt	48.4	42.6	41.6	---
-------------	-----	------	------	------	-----



Contamination

Water	%	NEG	NEG	NEG	---
Particles >4µm		17111	24624	19028	---
Particles >6µm		825	1009	279	---
Particles >14µm		27	74	4	---
ISO 4406:1999 (c)		21/17/12	22/17/13	21/15/9	---
Silicon	ppm	4	4	3	---
Sodium	ppm	4	3	3	---
Potassium	ppm	<1	1	<1	---



Wear Metals

Iron	ppm	7	9	8	---
Copper	ppm	3	4	2	---
Lead	ppm	1	2	1	---
Tin	ppm	0	<1	0	---
Aluminum	ppm	1	1	<1	---
Chromium	ppm	<1	1	<1	---
Molybdenum	ppm	27	17	14	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---



Additives

Calcium	ppm	986	926	621	---
Magnesium	ppm	303	210	164	---
Zinc	ppm	712	729	785	---
Phosphorus	ppm	637	677	681	---
Barium	ppm	<1	<1	0	---
Boron	ppm	44	33	23	---

Diagnosis

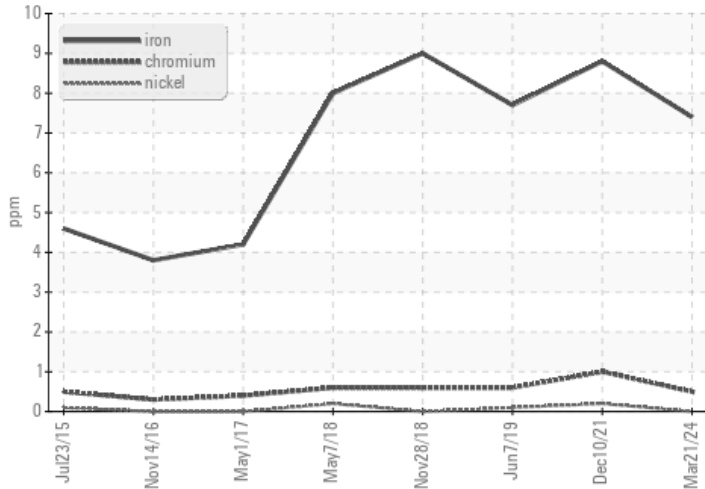
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Viscosity of sample indicates oil is within SAE 10W range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Depot: MCCBAT
Unique No: 5749834
Signed: Kevin Marson
Report Date: 27 Mar 2024

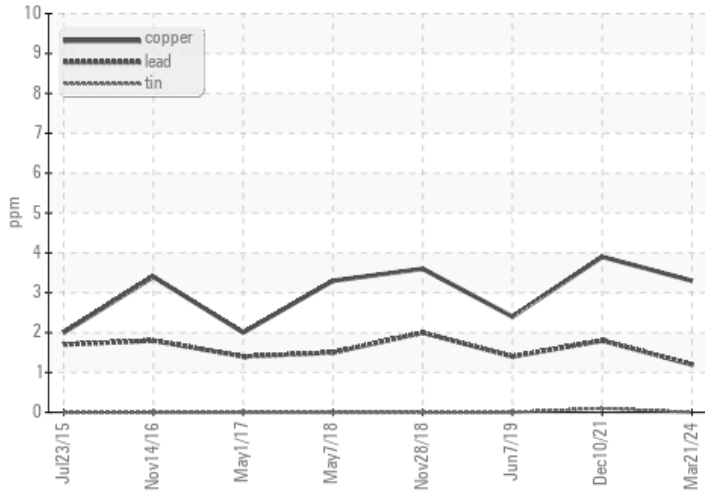


Graphs

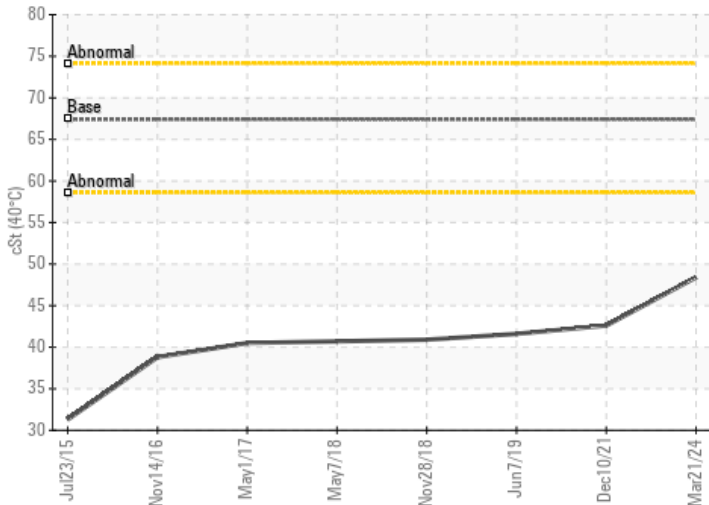
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

