

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR 70764 - Hydraulic System

Sample No: LH0280969

Oil Type: PETRO CANADA HYDREX EXTREME



Sample Information

Sample Number	LH0280969	LH0194396	---	---
Sample Date	17 Jun 2024	26 Aug 2022	---	---
Machine Hours	9395	14323	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	ATTENTION	SEVERE	---	---

XCALIBER
 30 ALBERTA AVE
 SPRUCEGROVE, AB
 CA T7X 4P9
 Contact: Service Manager



Oil Condition

Visc @ 40°C	cSt	31.2	23.8	---	---
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T:
F:



Contamination

Water	%	NEG	NEG	---	---
Particles >4µm		3637	50623	---	---
Particles >6µm		797	6620	---	---
Particles >14µm		38	273	---	---
ISO 4406:1999 (c)		19/17/12	23/20/15	---	---
Silicon	ppm	3	7	---	---
Sodium	ppm	2	1	---	---
Potassium	ppm	<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	4	5	---	---
Copper	ppm	11	9	---	---
Lead	ppm	2	<1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	<1	1	---	---
Chromium	ppm	2	2	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



Additives

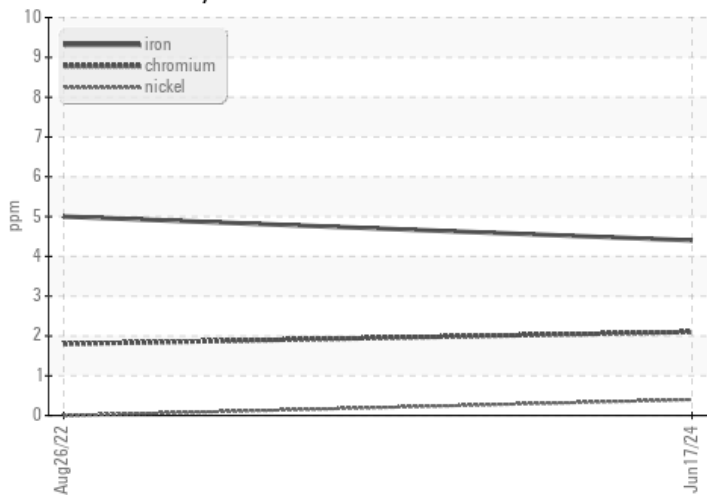
Calcium	ppm	105	349	---	---
Magnesium	ppm	<1	2	---	---
Zinc	ppm	61	158	---	---
Phosphorus	ppm	543	433	---	---
Barium	ppm	<1	0	---	---
Boron	ppm	10	16	---	---

Depot: XCASPR
 Unique No: 5800151
 Signed: Kevin Marson
 Report Date: 19 Jun 2024

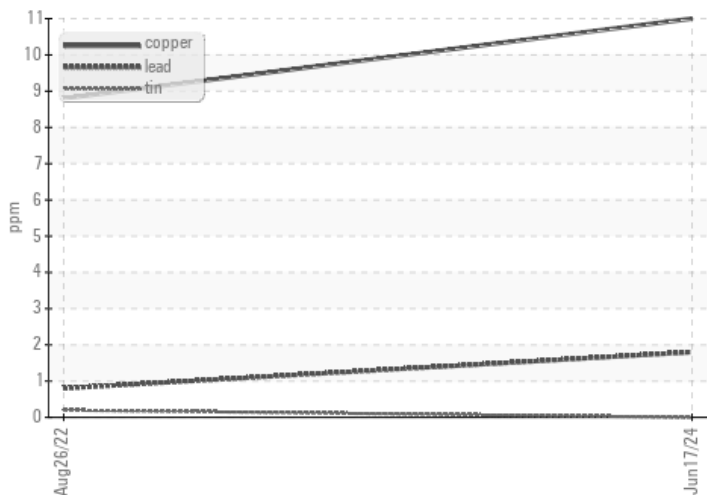


Graphs

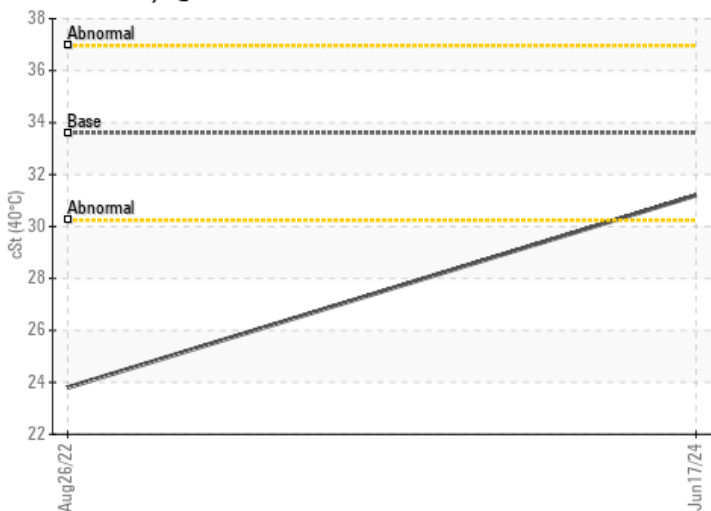
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

