

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 142304-1216 - Hydraulic System

Sample No: LH0248063

Oil Type: PETRO CANADA HYDREX DT 46



PRODUITS FORESTIERS D.G. LTEE
 313 RANG ST-JOSEPH
 STE-AURELIE, QC
 CA G0M 1M0
 Contact: Roger .

T: (418)593-3547
 F: (418)593-3633



SAMPLE INFORMATION

Sample Number	LH0248063	LH	---	---
Sample Date	11 Oct 2023	25 Jul 2023	---	---
Machine Hours	4000	3000	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 40.8	● 42.0	---	---
Acid Number (AN)	mg KOH/g	● 1.16	---	---	---



CONTAMINATION

Particles >4µm		● 249	● 1903	---	---
Particles >6µm		● 96	● 435	---	---
Particles >14µm		● 11	● 20	---	---
ISO 4406:1999 (c)		15/14/11	18/16/11	---	---
Silicon	ppm	● 4	● 3	---	---
Sodium	ppm	● 2	● 1	---	---
Potassium	ppm	● <1	● <1	---	---



WEAR METALS

Iron	ppm	● 16	● 13	---	---
Copper	ppm	● 4	● 3	---	---
Lead	ppm	● <1	● <1	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● 1	● 1	---	---
Chromium	ppm	● <1	● <1	---	---
Molybdenum	ppm	● 0	● 0	---	---
Nickel	ppm	● 0	● 0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	● 0	● <1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1306	1289	---	---
Magnesium	ppm	● 4	● 6	---	---
Zinc	ppm	● 669	● 680	---	---
Phosphorus	ppm	● 586	● 651	---	---
Barium	ppm	● <1	● 0	---	---
Boron	ppm	● 1	● 1	---	---

Diagnosis

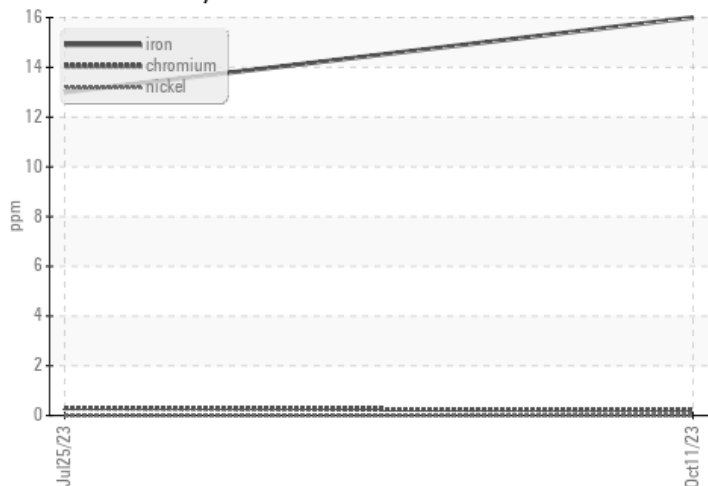
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: PRO9STE
 Unique No: 5681956
 Signed: Kevin Marson
 Report Date: 17 Nov 2023

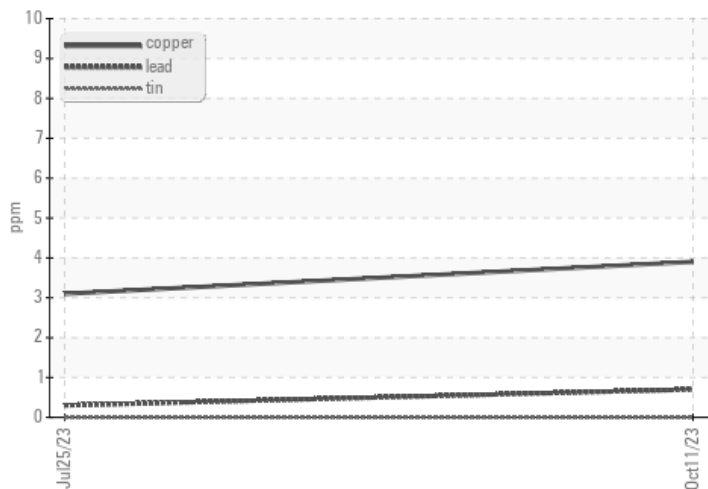


GRAPHS

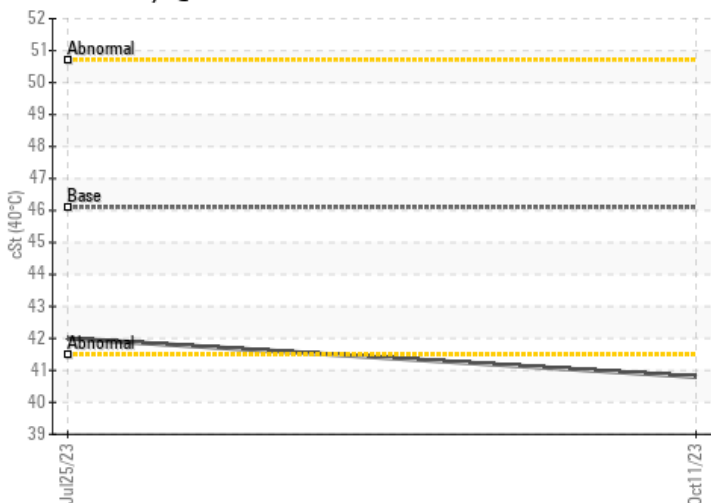
Ferrous Alloys



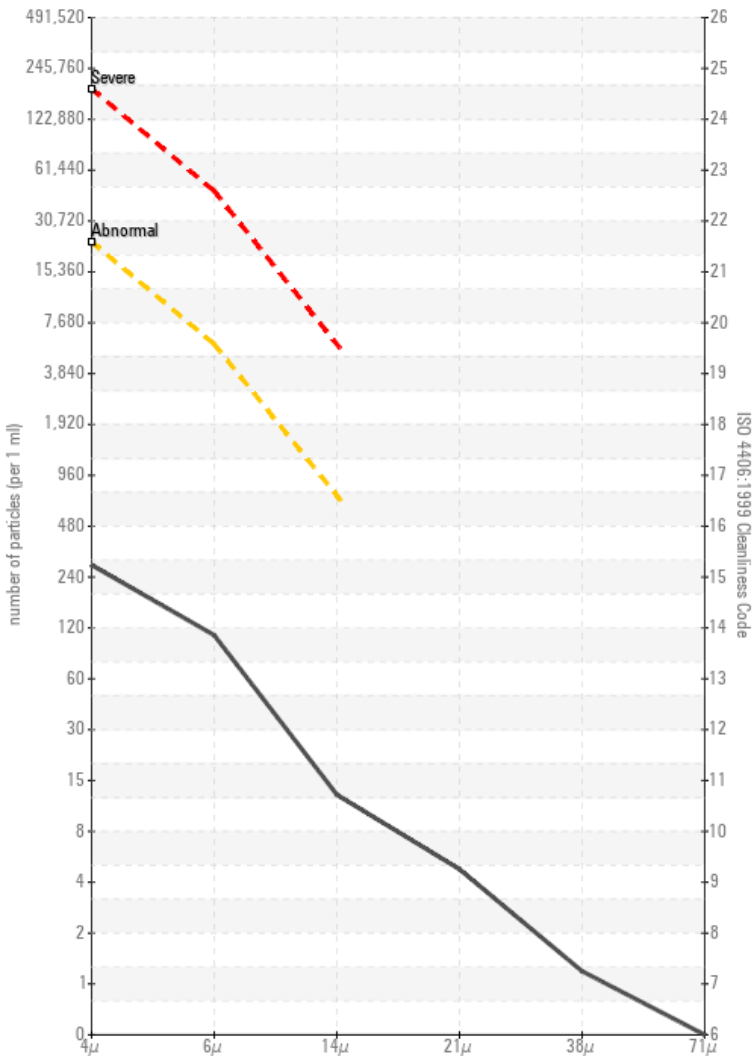
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

