

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 141511-1217 - Hydraulic System

Sample No: LH0246255

Oil Type: PETRO CANADA ENVIRON MV 46



Radius Recycling Canada Ltd.
 12195 Musqueam Dr.
 Surrey, BC
 CA V3V 3T2
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SAMPLE INFORMATION

Sample Number	LH0246255	LH0250492	LH0250526	---
Sample Date	08 Sep 2023	14 Jul 2023	14 Jul 2023	---
Machine Hours	1531	1034	1288	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Not Changd	Not Changd	---
Sample Status	NORMAL	ATTENTION	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	43.1	43.8	43.5	---
Acid Number (AN)	mg KOH/g	1.34	---	---	---



CONTAMINATION

Particles >4µm		250	680	382	---
Particles >6µm		61	196	105	---
Particles >14µm		5	31	11	---
ISO 4406:1999 (c)		15/13/10	17/15/12	16/14/11	---
Silicon	ppm	3	2	3	---
Sodium	ppm	2	1	2	---
Potassium	ppm	<1	<1	<1	---



WEAR METALS

Iron	ppm	11	10	11	---
Copper	ppm	4	3	3	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	<1	1	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1221	1235	1247	---
Magnesium	ppm	4	4	4	---
Zinc	ppm	603	619	622	---
Phosphorus	ppm	604	663	660	---
Barium	ppm	<1	0	0	---
Boron	ppm	1	<1	1	---

Diagnosis

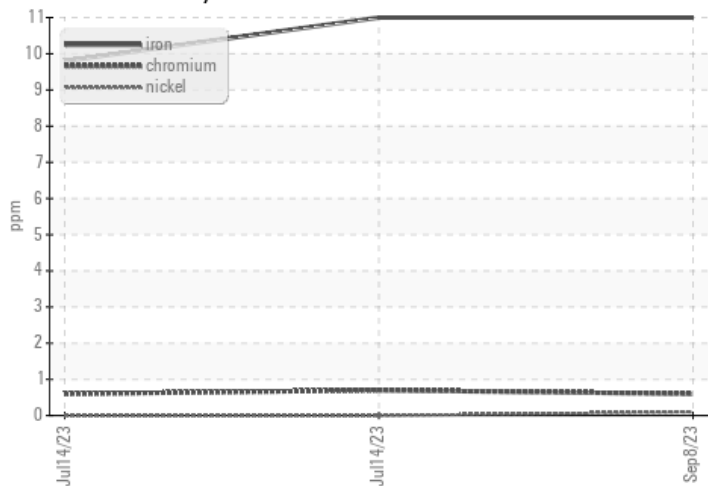
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Additive levels indicate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

Depot: AMISUR
 Unique No: 5658742
 Signed: Kevin Marson
 Report Date: 18 Oct 2023

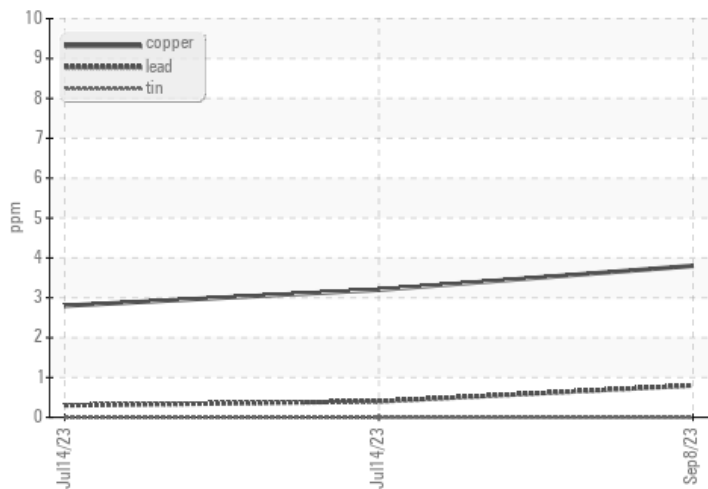


GRAPHS

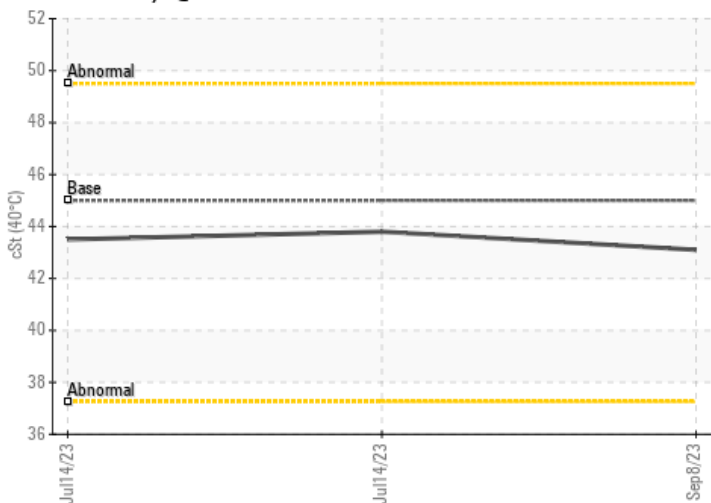
Ferrous Alloys



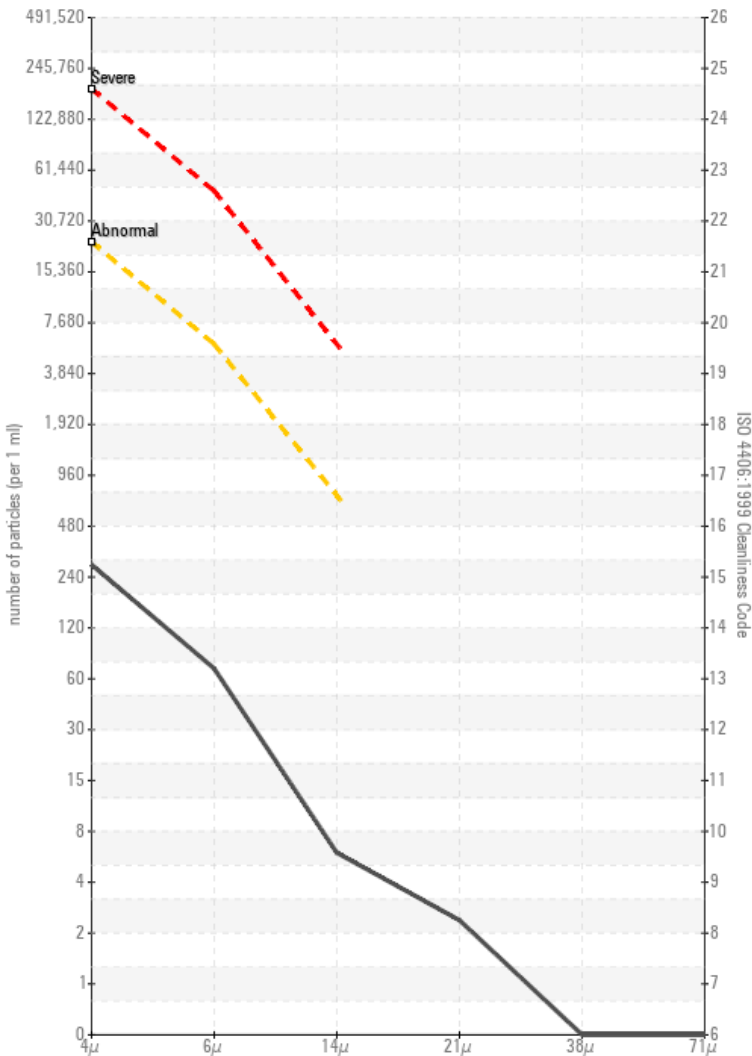
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

