

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 141511-1217 - Hydraulic System

Sample No: LH0260624

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	LH0260624	LH0246255	LH0250492	LH0250526
Sample Date	20 Dec 2023	08 Sep 2023	14 Jul 2023	14 Jul 2023
Machine Hours	2029	1531	1034	1288
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	ATTENTION	NORMAL	ATTENTION	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	42.7	43.1	43.8	43.5
Acid Number (AN)	mg KOH/g	---	1.34	---	---



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		314	250	680	382
Particles >6µm		65	61	196	105
Particles >14µm		5	5	31	11
ISO 4406:1999 (c)		15/13/10	15/13/10	17/15/12	16/14/11
Silicon	ppm	2	3	2	3
Sodium	ppm	2	2	1	2
Potassium	ppm	1	<1	<1	<1



WEAR METALS

Iron	ppm	12	11	10	11
Copper	ppm	5	4	3	3
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	1	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1151	1221	1235	1247
Magnesium	ppm	4	4	4	4
Zinc	ppm	554	603	619	622
Phosphorus	ppm	625	604	663	660
Barium	ppm	0	<1	0	0
Boron	ppm	<1	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: 5735511

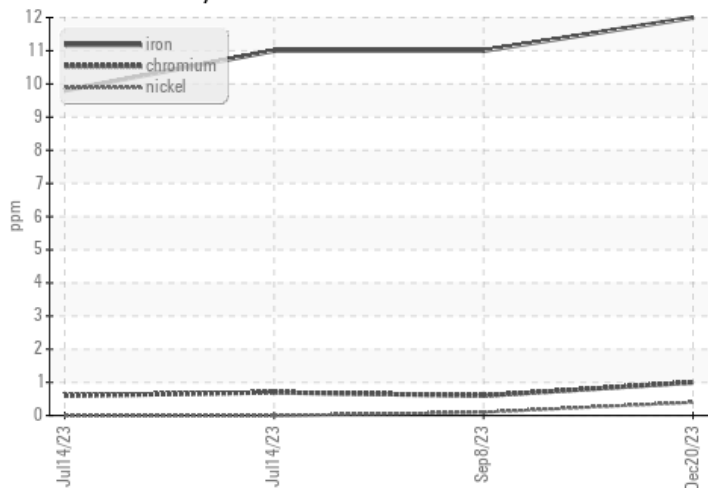
Signed: Kevin Marson

Report Date: 28 Feb 2024

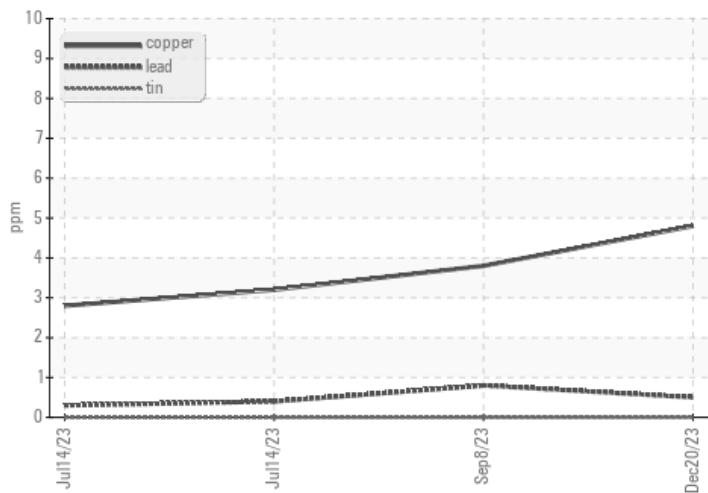


GRAPHS

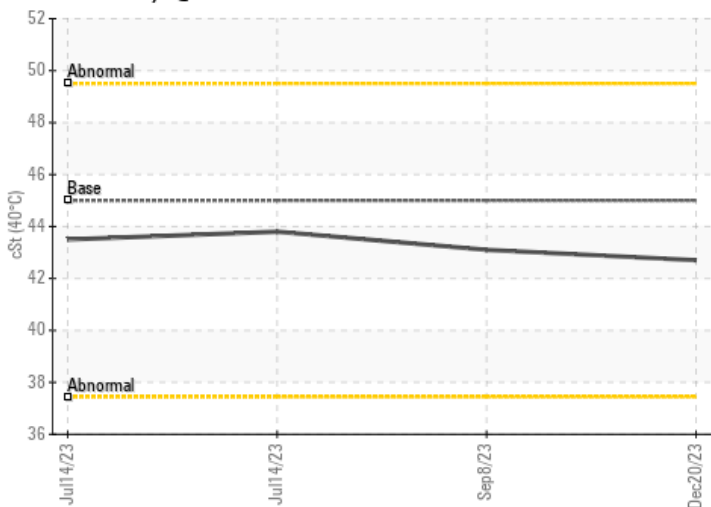
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

