

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 141511-1217 - Hydraulic System

Sample No: LH0246266

Oil Type: PETRO CANADA ENVIRON MV 46



Radius Recycling Canada Ltd.
 12195 Musqueam Dr.
 Surrey, BC
 CA V3V 3T2
 Contact: Chris Trinkunas
 ctrinkunas@rds.com
 T:
 F: (604)580-1922



Sample Information

Sample Number	LH0246266	LH0260624	LH0246255	LH0250492
Sample Date	15 Apr 2024	20 Dec 2023	08 Sep 2023	14 Jul 2023
Machine Hours	2560	2029	1531	1034
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Changed	Not Changd
Sample Status	ATTENTION	ATTENTION	NORMAL	ATTENTION



Oil Condition

Visc @ 40°C	cSt	42.3	42.7	43.1	43.8
Acid Number (AN)	mg KOH/g	1.06	---	1.34	---



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		657	314	250	680
Particles >6µm		93	65	61	196
Particles >14µm		4	5	5	31
ISO 4406:1999 (c)		17/14/9	15/13/10	15/13/10	17/15/12
Silicon	ppm	1	2	3	2
Sodium	ppm	2	2	2	1
Potassium	ppm	<1	1	<1	<1



Wear Metals

Iron	ppm	12	12	11	10
Copper	ppm	6	5	4	3
Lead	ppm	0	<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	0	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	1
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	1092	1151	1221	1235
Magnesium	ppm	4	4	4	4
Zinc	ppm	535	554	603	619
Phosphorus	ppm	613	625	604	663
Barium	ppm	0	0	<1	0
Boron	ppm	<1	<1	1	<1

Diagnosis

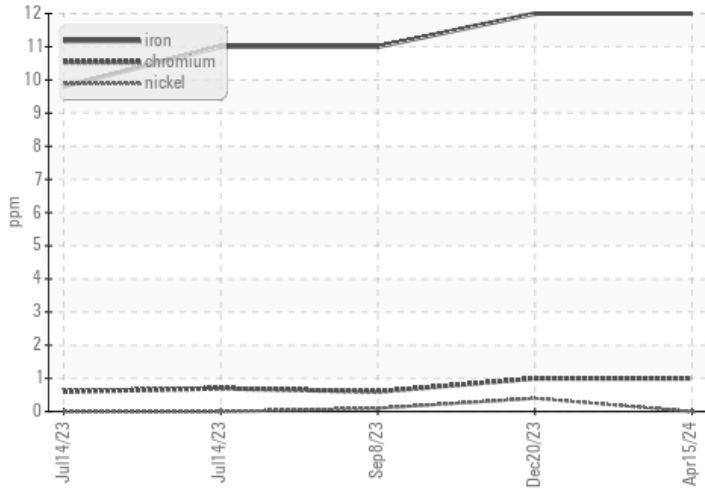
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Additive levels indicate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

Depot: AMISUR
 Unique No: 5773486
 Signed: Kevin Marson
 Report Date: 01 May 2024

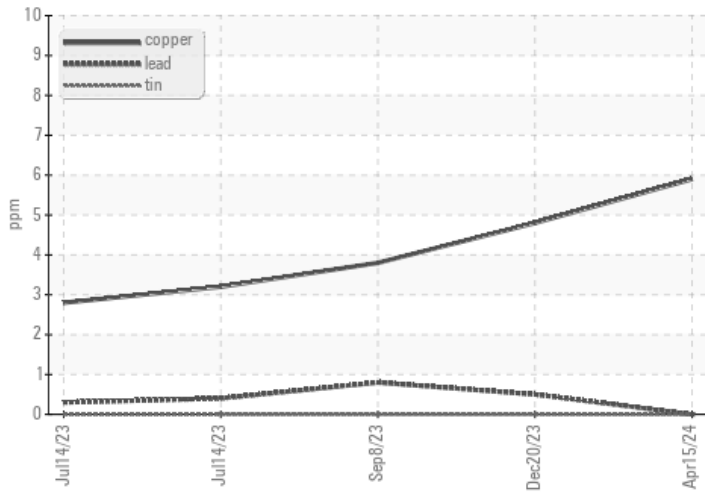


Graphs

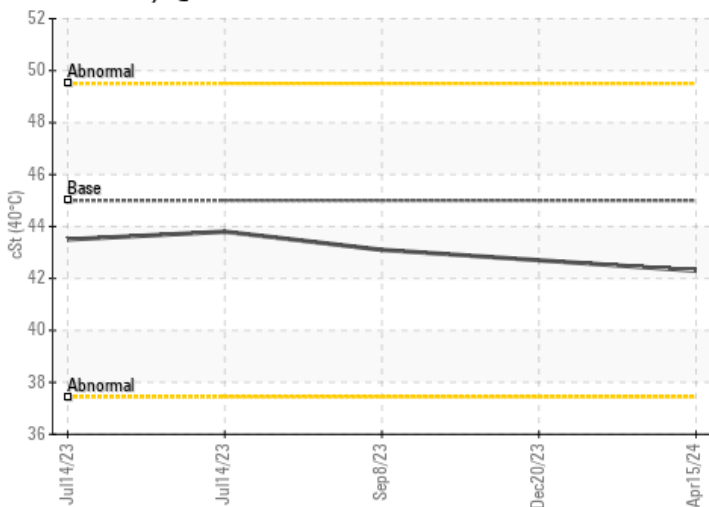
Ferrous Alloys



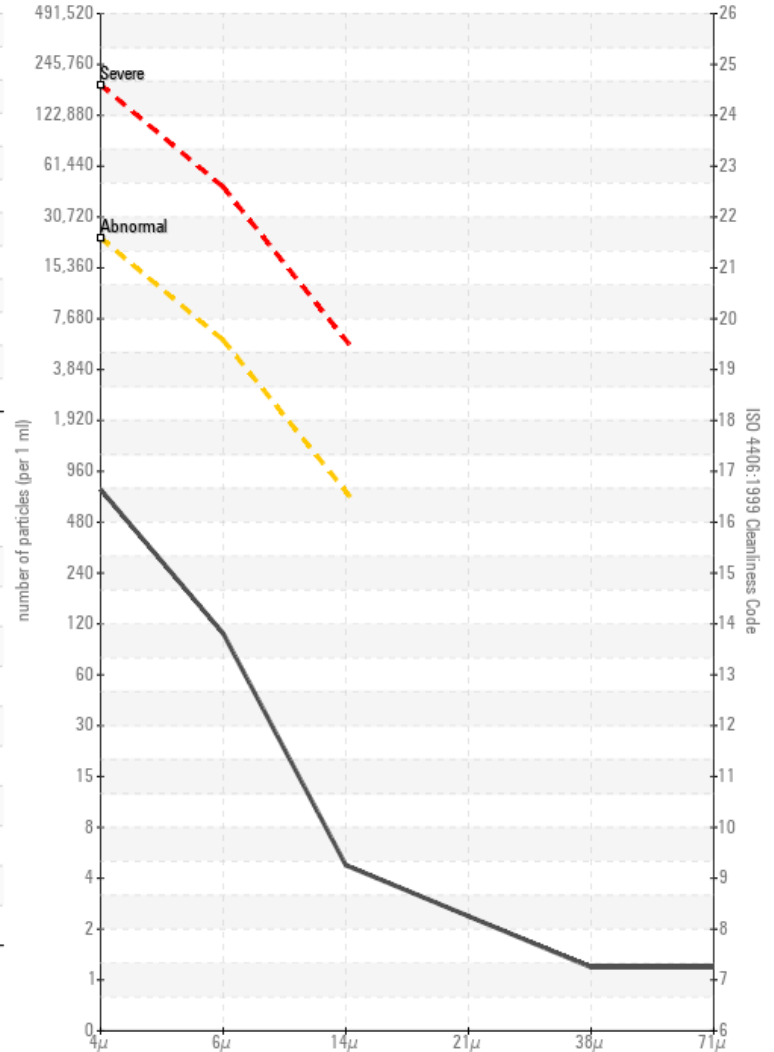
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

