

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L538P 053864-1559 - Hydraulic System

Sample No: LH0281051

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0281051	LH0246900	LH0221932	LH0206332
Sample Date	05 Feb 2024	13 Feb 2023	11 Jan 2022	16 Jun 2021
Machine Hours	6577	4984	2951	1659
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RICHMOND STEEL RECYCLING
 11760 MITCHELL ROAD
 RICHMOND, BC
 CA V6V 1V8
 Contact: Aaron Kaetler
 AKAetler@richmondsteel.ca
 T:
 F: (604)324-8617



OIL CONDITION

Visc @ 40°C	cSt	54.5	50.3	48.4	45.4



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		10965	2955	16313	9988
Particles >6µm		1886	224	1096	1036
Particles >14µm		107	16	37	29
ISO 4406:1999 (c)		21/18/14	19/15/11	21/17/12	20/17/12
Silicon	ppm	3	3	2	2
Sodium	ppm	<1	<1	3	1
Potassium	ppm	2	1	2	1

Diagnosis

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. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	9	19	12	10
Copper	ppm	2	7	6	6
Lead	ppm	2	5	5	4
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	2	1	<1
Chromium	ppm	4	4	2	1
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

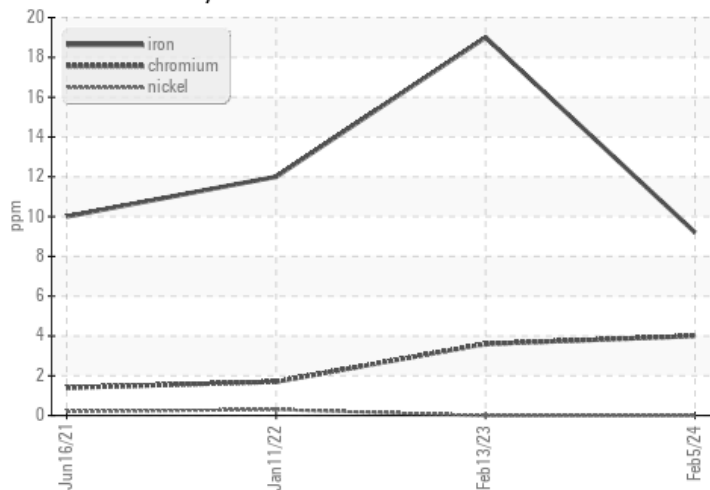
Calcium	ppm	248	805	902	1150
Magnesium	ppm	5	6	6	6
Zinc	ppm	569	583	620	690
Phosphorus	ppm	476	513	528	574
Barium	ppm	0	0	0	<1
Boron	ppm	<1	<1	1	1

Depot: RIC117RIC
 Unique No: 5722877
 Signed: Bill Quesnel
 Report Date: 06 Feb 2024

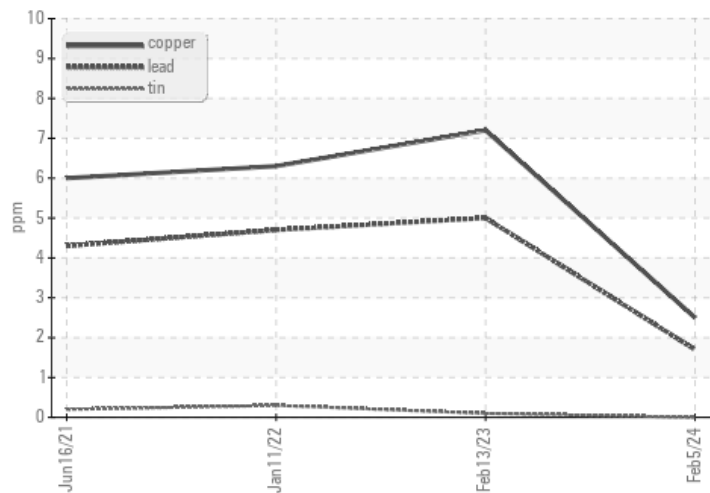


GRAPHS

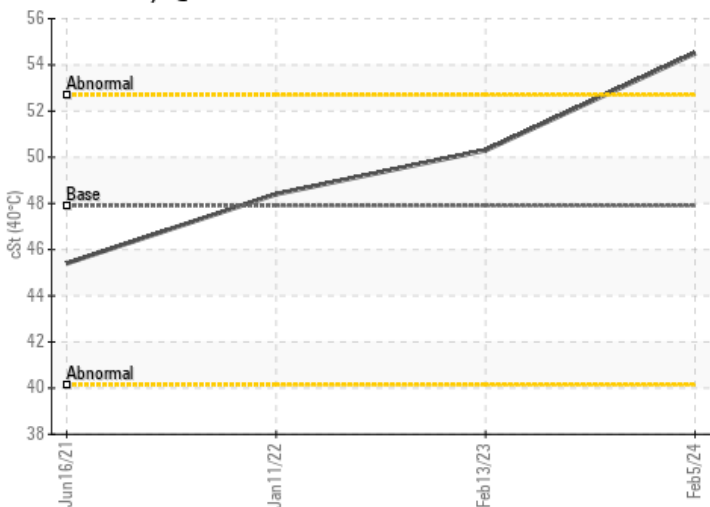
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

