

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L538P 046205-1559 - Hydraulic System

Sample No: LH0265465

Oil Type: NOT GIVEN



SAMPLE INFORMATION

Sample Number	LH0265465	LH0234721	LH	LH
Sample Date	25 Jul 2023	28 Jul 2022	02 Feb 2022	07 Apr 2021
Machine Hours	5955	5088	0	0
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	N/A	N/A
Sample Status	NORMAL	ATTENTION	NORMAL	ABNORMAL

LES INDUSTRIES MAIBEC INC.

340 ROUTE 173
ST-THEOPHILLE, QC
CA G0M 2A0

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F:



OIL CONDITION

Visc @ 40°C	cSt	44.4	44.1	45.0	44.3
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CONTAMINATION

Particles >4µm		12939	21157	16428	66964
Particles >6µm		1231	304	1374	8017
Particles >14µm		40	21	70	39
ISO 4406:1999 (c)		21/17/12	22/15/12	21/18/13	23/20/12
Silicon	ppm	5	6	5	7
Sodium	ppm	1	1	2	<1
Potassium	ppm	2	2	3	2

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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

PQ		0	0	0	0
Iron	ppm	28	30	27	33
Copper	ppm	4	4	5	5
Lead	ppm	5	6	6	7
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	3	2	4
Chromium	ppm	9	11	4	12
Molybdenum	ppm	1	2	<1	2
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	432	572	1065	503
Magnesium	ppm	18	25	16	30
Zinc	ppm	795	704	683	756
Phosphorus	ppm	670	552	596	635
Barium	ppm	0	0	0	<1
Boron	ppm	2	2	2	2

Depot: LESSTT

Unique No: 5618282

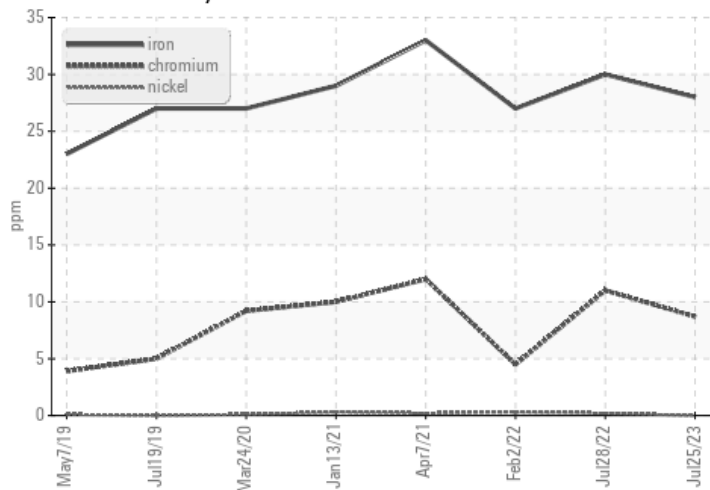
Signed: Kevin Marson

Report Date: 01 Aug 2023

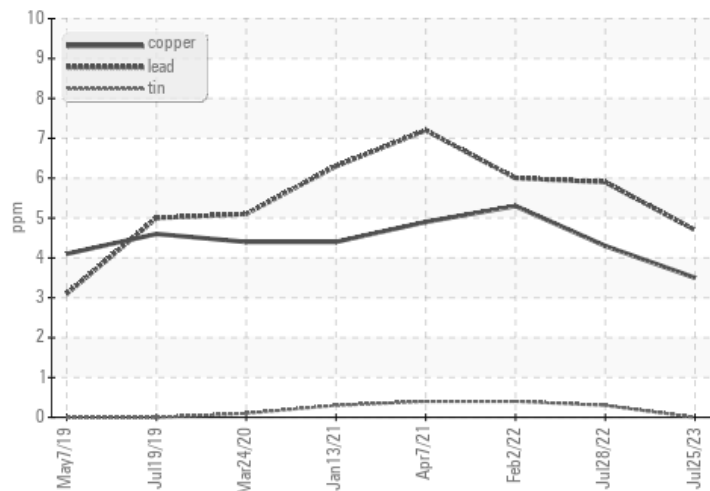


GRAPHS

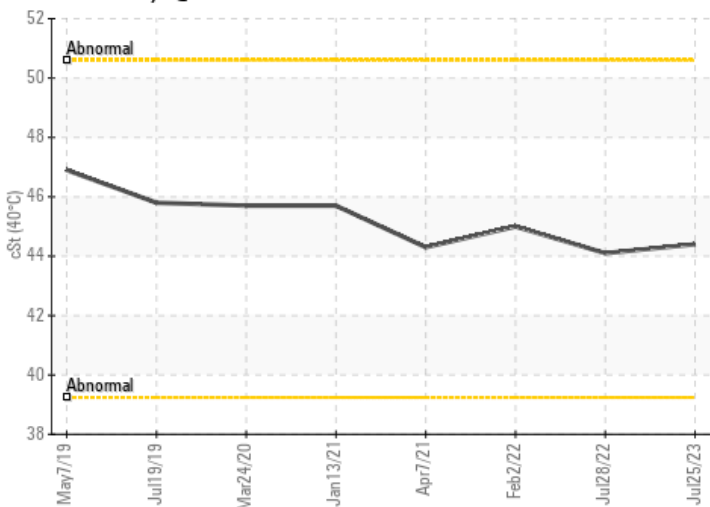
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

