

LIEBHERR

CONSTRUCTION EQUIPMENT



[EARTH BORING] LIEBHERR LB28 T15607 - Hydraulic System

Sample No: LH0286851

Oil Type: PETRO CANADA HYDREX MV 46



SAMPLE INFORMATION

Sample Number	LH0286851	LH0256993	LH0230901	LH
Sample Date	13 Mar 2024	03 Aug 2023	05 Jul 2022	22 Oct 2021
Machine Hours	9668	9018	7685	6721
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Liebherr Canada

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 Richmond, BC
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OIL CONDITION

Visc @ 40°C	cSt	29.6	28.2	28.2	28.2



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		6592	4977	4100	2554
Particles >6µm		1817	1268	972	542
Particles >14µm		23	50	101	48
ISO 4406:1999 (c)		20/18/12	19/17/13	19/17/14	19/16/13
Silicon	ppm	1	2	2	2
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	1	<1	<1	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	4	5	3	3
Copper	ppm	7	10	8	8
Lead	ppm	1	2	2	2
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	<1	1	<1	1
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

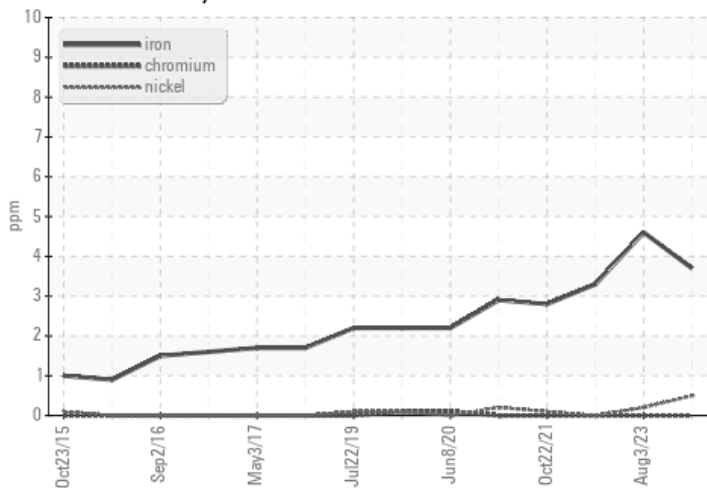
Calcium	ppm	51	55	52	48
Magnesium	ppm	2	2	2	2
Zinc	ppm	320	313	298	295
Phosphorus	ppm	277	281	254	262
Barium	ppm	0	0	0	0
Boron	ppm	<1	1	<1	1

Depot: LIERIC
 Unique No: 5747154
 Signed: Wes Davis
 Report Date: 15 Mar 2024

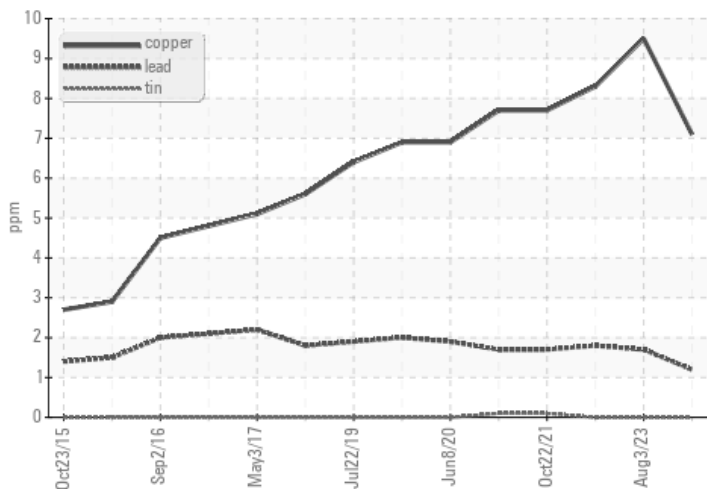


GRAPHS

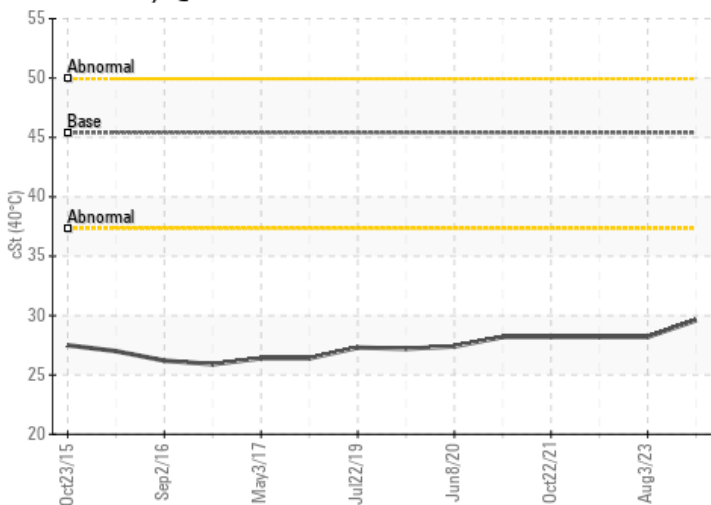
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

