

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60C106512-1528 - Hydraulic System

Sample No: LH0278464

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



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Sample Information

Sample Number	LH0278464	LH0278577	LH0265768	LH
Sample Date	21 Mar 2024	05 Jan 2024	28 Sep 2023	23 Aug 2023
Machine Hours	22529	21976	20758	0
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	44.9	45.1	43.7	41.2
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Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		8500	44052	3430	4424
Particles >6µm		1787	14766	940	1430
Particles >14µm		47	1338	34	127
ISO 4406:1999 (c)		20/18/13	23/21/18	19/17/12	19/18/14
Silicon	ppm	0	<1	<1	<1
Sodium	ppm	0	0	<1	<1
Potassium	ppm	<1	<1	0	<1



Wear Metals

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



Additives

Calcium	ppm	100	102	85	76
Magnesium	ppm	3	6	24	35
Zinc	ppm	854	829	730	676
Phosphorus	ppm	644	655	558	558
Barium	ppm	0	0	<1	<1
Boron	ppm	0	0	<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.

Depot: MANSEL
 Unique No: 5760525
 Signed: Wes Davis
 Report Date: 10 Apr 2024

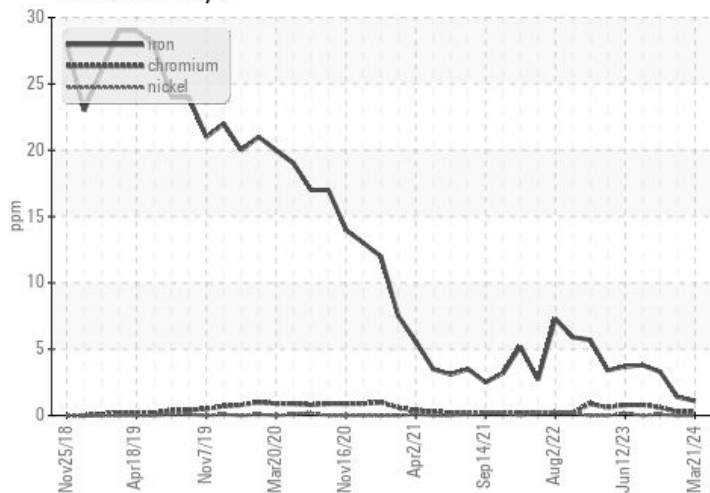
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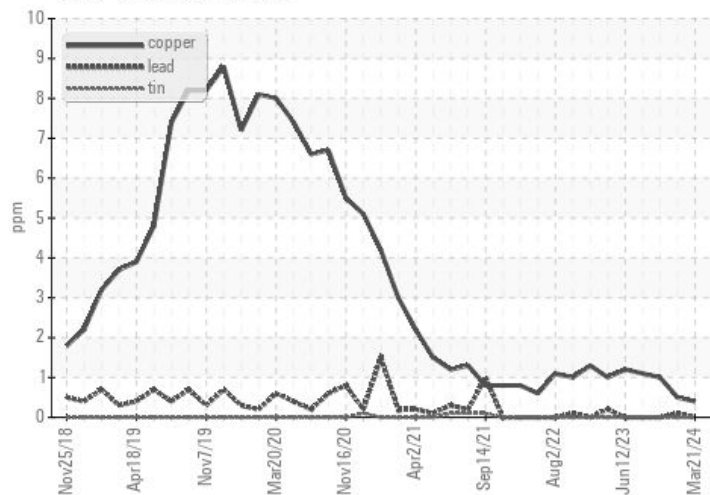


Graphs

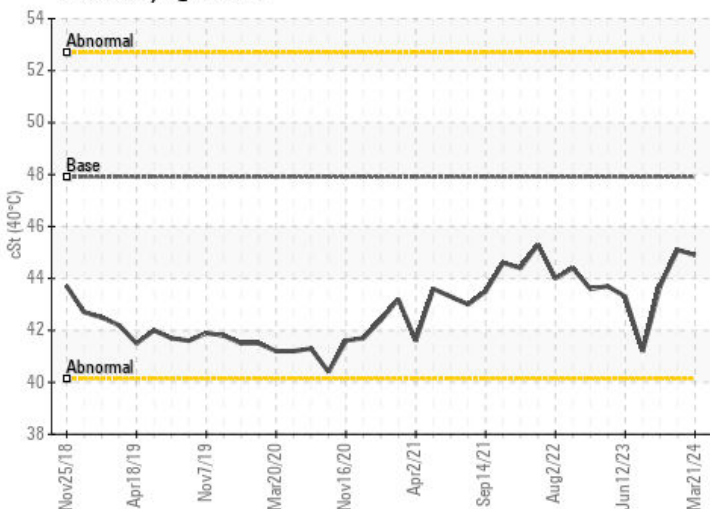
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

