

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH18M 133780-1840 - Hydraulic System

Sample No: LH

Oil Type: LIEBHERR HYDRAULIC HVI



SERVICES SANITAIRES ST-ANTOINE INC
 16600 RTE SIR WILFRID-LAURIER
 MIRABEL, QC
 CA J7J 2G3
 Contact: Service Manager

T:
F:



SAMPLE INFORMATION

Sample Number	LH	LH0261198	LH0260744	LH0250903
Sample Date	12 Dec 2023	01 Sep 2023	26 May 2023	30 Jan 2023
Machine Hours	3571	2973	2461	1835
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	45.3	44.0	43.4	43.6
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2754	886	8229	10150
Particles >6µm		923	193	2604	3519
Particles >14µm		75	9	190	402
ISO 4406:1999 (c)		19/17/13	17/15/10	20/19/15	21/19/16
Silicon	ppm	3	3	3	3
Sodium	ppm	3	3	3	2
Potassium	ppm	0	<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	16	15	12	11
Copper	ppm	4	3	3	2
Lead	ppm	1	1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	4	4	3	3
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

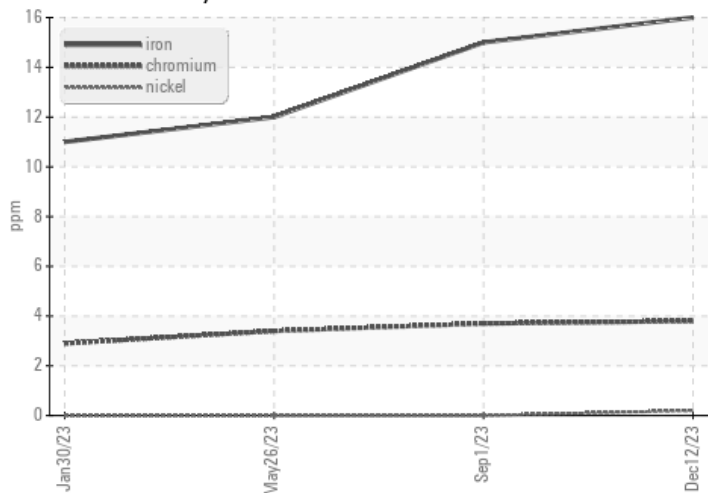
Calcium	ppm	1469	1492	1660	1668
Magnesium	ppm	15	11	5	5
Zinc	ppm	733	747	743	758
Phosphorus	ppm	603	658	691	693
Barium	ppm	<1	0	0	0
Boron	ppm	1	1	<1	<1

Depot: SERMIR
 Unique No: 5696938
 Signed: Wes Davis
 Report Date: 20 Dec 2023

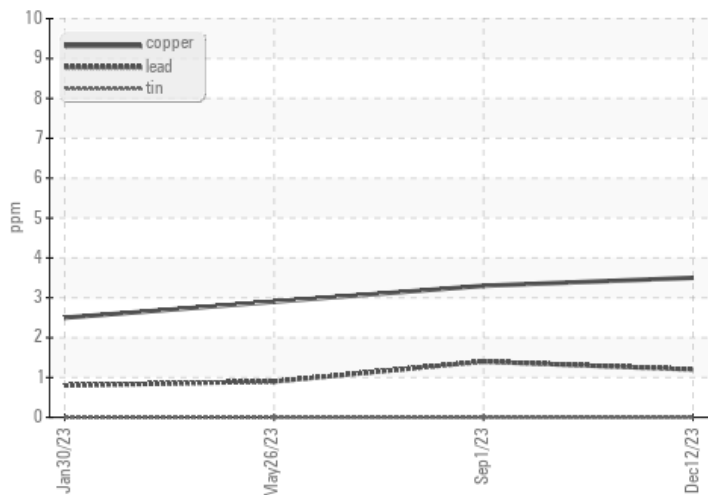


GRAPHS

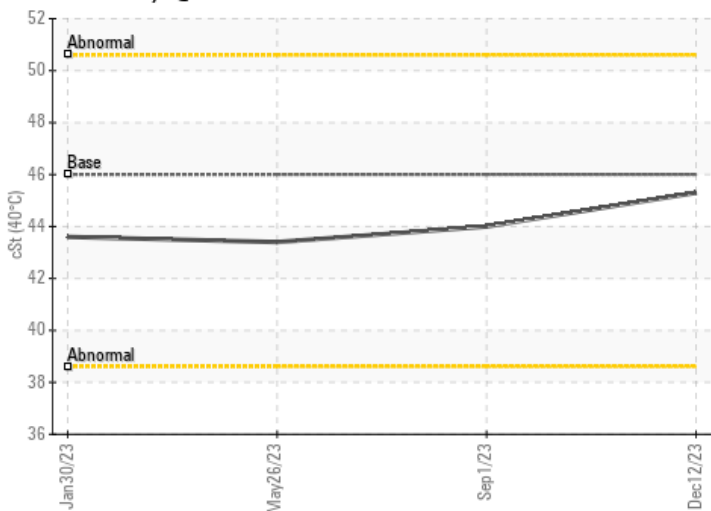
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

