

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 097459-1216 - Hydraulic System

Sample No: LH0180229

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0180229	LH	LH0136438	LH0145462
Sample Date	06 Oct 2020	07 Jul 2020	08 Nov 2019	05 Jul 2019
Machine Hours	0	0	12984	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	40.8	39.7	35.1	35.1



CONTAMINATION

Particles >4µm		4064	7118	14445	17460
Particles >6µm		588	1110	945	3454
Particles >14µm		26	43	36	141
ISO 4406:1999 (c)		19/16/12	20/17/13	21/17/12	21/19/14
Silicon	ppm	1	<1	<1	<1
Sodium	ppm	<1	<1	0	<1
Potassium	ppm	<1	1	<1	<1



WEAR METALS

Iron	ppm	23	21	13	8
Copper	ppm	2	2	2	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	<1	0	<1	<1
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	80	80	111	111
Magnesium	ppm	<1	1	1	2
Zinc	ppm	586	516	439	417
Phosphorus	ppm	447	414	364	345
Barium	ppm	0	0	<1	0
Boron	ppm	<1	<1	<1	<1

J.D. Irving

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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: JDITRU

Unique No: 5122462

Signed: Wes Davis

Report Date: 23 Oct 2020

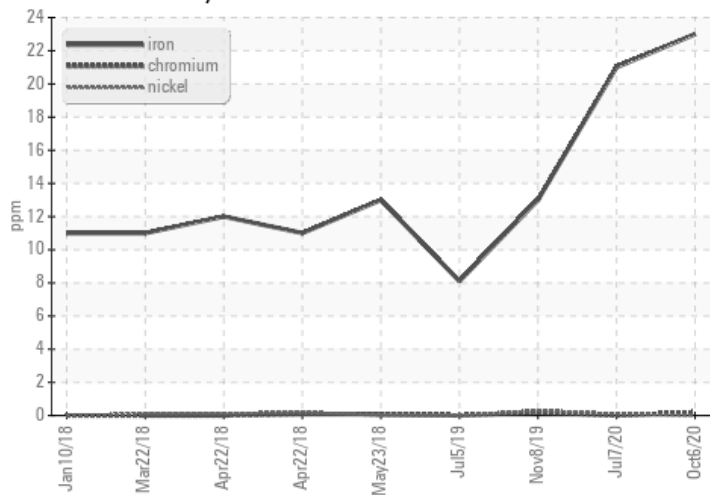
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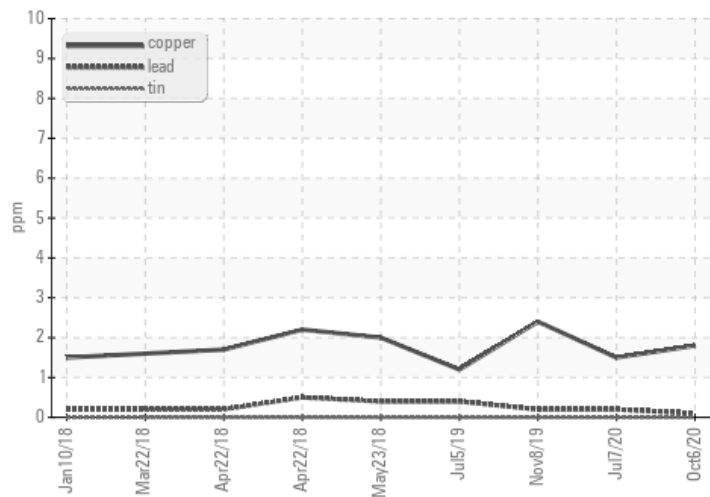


GRAPHS

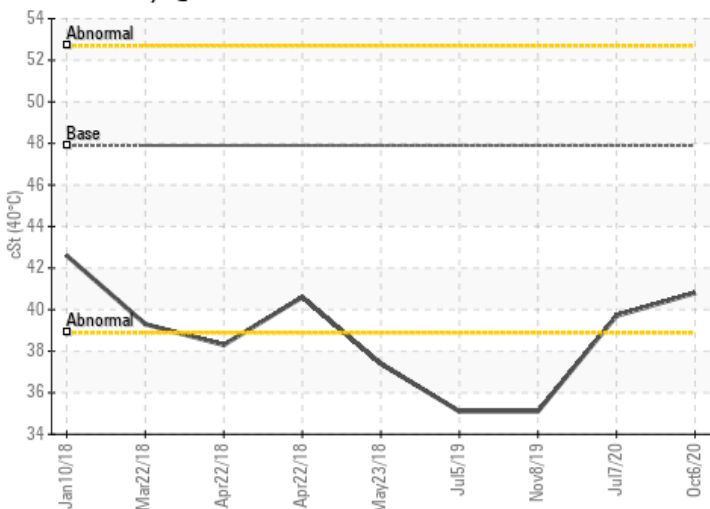
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

