

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 097459-1216 - Hydraulic System

Sample No: LH0194637

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



#### SAMPLE INFORMATION

Sample Number	LH0194637	LH0180229	LH	LH0136438
Sample Date	25 Jul 2021	06 Oct 2020	07 Jul 2020	08 Nov 2019
Machine Hours	17995	0	0	12984
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

J.D. Irving

Truro Sawmill, 529 Valley Dale Road  
Truro, NS  
CA B2N 5C5  
Contact: Sheldon Richardson  
richardson.sheldon@jdirving.com  
T: (902)890-9419  
F:



#### OIL CONDITION

Visc @ 40°C	cSt	41.9	40.8	39.7	35.1
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#### CONTAMINATION

Particles >4µm		6291	4064	7118	14445
Particles >6µm		786	588	1110	945
Particles >14µm		16	26	43	36
ISO 4406:1999 (c)		20/17/11	19/16/12	20/17/13	21/17/12
Silicon	ppm	<1	1	<1	<1
Sodium	ppm	<1	<1	<1	0
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	18	23	21	13
Copper	ppm	1	2	2	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	69	80	80	111
Magnesium	ppm	<1	<1	1	1
Zinc	ppm	600	586	516	439
Phosphorus	ppm	501	447	414	364
Barium	ppm	0	0	0	<1
Boron	ppm	<1	<1	<1	<1

Depot: JDITRU  
Unique No: 5254825  
Signed: Wes Davis  
Report Date: 27 Jul 2021

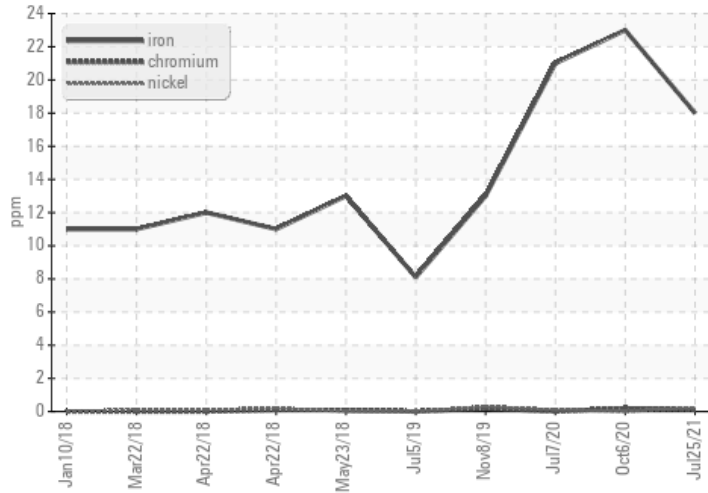
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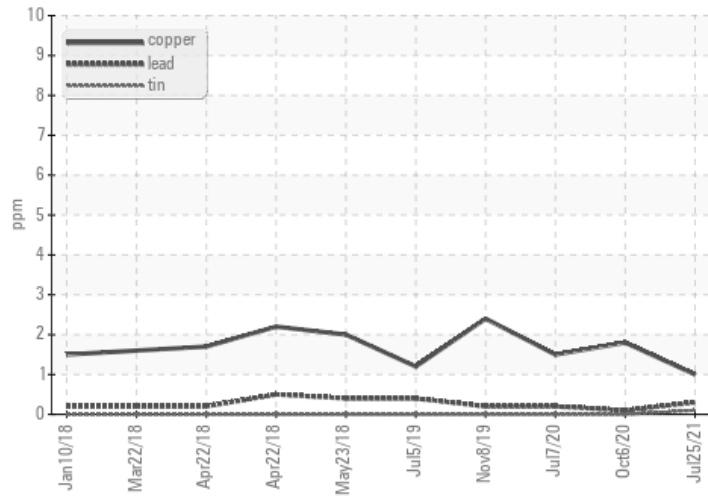


### GRAPHS

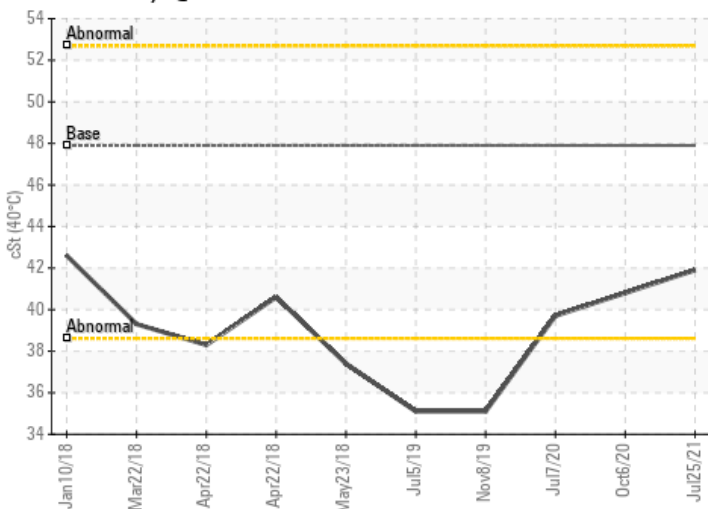
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

