

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A924C064062-1049 - Hydraulic System

Sample No: LH0261033

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



**MARCEL DUVAL FER ET METAUX INC.**  
661 RANG STE-MARIE  
ST. SEBASTIEN, QC  
CA J0J 2C0  
Contact: Service Manager



#### SAMPLE INFORMATION

Sample Number	LH0261033	LH	LH0177708	LH0151497
Sample Date	14 Jun 2023	06 Aug 2021	08 Jan 2021	22 Aug 2019
Machine Hours	13298	11114	10412	8655
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	Not Changd	Changed
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	37.0	39.7	40.8	41.4
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#### CONTAMINATION

Particles >4µm		29313	6848	1505	2877
Particles >6µm		4801	1820	372	524
Particles >14µm		255	135	23	64
ISO 4406:1999 (c)		22/19/15	20/18/14	18/16/12	19/16/13
Silicon	ppm	2	1	2	<1
Sodium	ppm	1	1	3	0
Potassium	ppm	<1	<1	1	<1



#### WEAR METALS

Iron	ppm	26	25	27	26
Copper	ppm	9	8	8	6
Lead	ppm	<1	1	1	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	4	4	4	2
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	262	349	404	408
Magnesium	ppm	3	3	3	3
Zinc	ppm	563	637	655	702
Phosphorus	ppm	481	547	500	562
Barium	ppm	0	0	0	<1
Boron	ppm	<1	<1	<1	<1

T:  
F:

#### Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The condition of the oil is acceptable for the time in service.

Depot: MARSTS  
Unique No: 5604372  
Signed: Kevin Marson  
Report Date: 30 Jun 2023

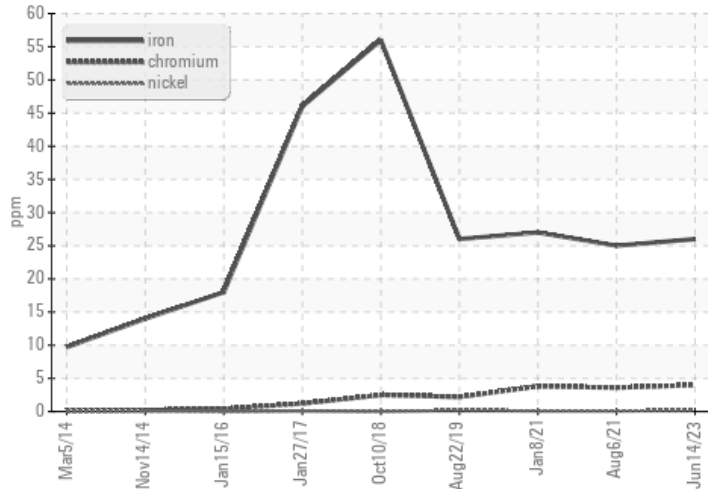
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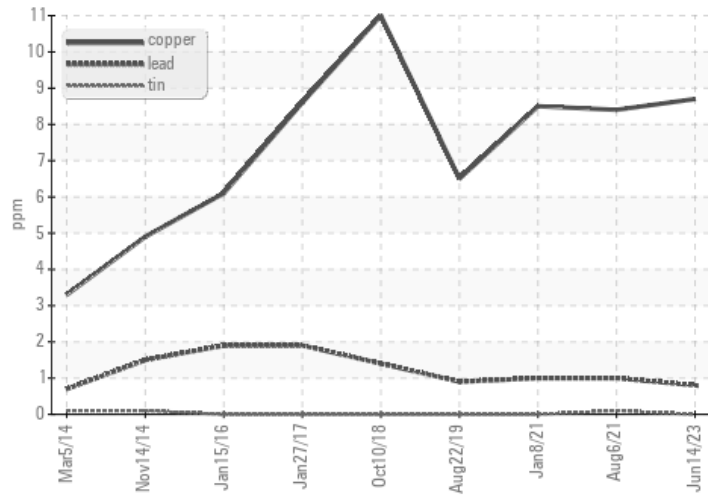


### GRAPHS

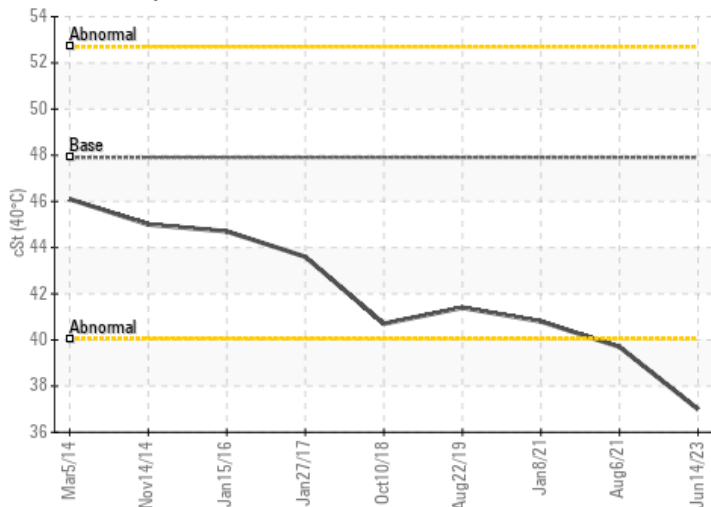
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

