

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(360377)] LIEBHERR L580 059426-1464 - Hydraulic System

Sample No: LH0237650

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



#### Sample Information

Sample Number	LH0237650	LH0237639	LH0242483	LH0178333
Sample Date	03 May 2024	09 Aug 2023	17 Nov 2022	18 Aug 2022
Machine Hours	6520	5106	3593	2987
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

**CLOUTHIER VENTURES LTD.**  
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#### Oil Condition

Visc @ 40°C	cSt	44.1	42.6	43.5	43.5
Acid Number (AN)	mg KOH/g	1.15	1.02	---	---



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		3493	1142	15216	12770
Particles >6µm		603	163	2957	1222
Particles >14µm		27	11	122	24
ISO 4406:1999 (c)		19/16/12	17/15/11	21/19/14	21/17/12
Silicon	ppm	<1	3	3	2
Sodium	ppm	1	2	2	2
Potassium	ppm	1	2	2	2

#### 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### Wear Metals

Iron	ppm	7	11	9	8
Copper	ppm	3	5	5	3
Lead	ppm	6	11	8	9
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	1	1	1
Chromium	ppm	1	2	<1	1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



#### Additives

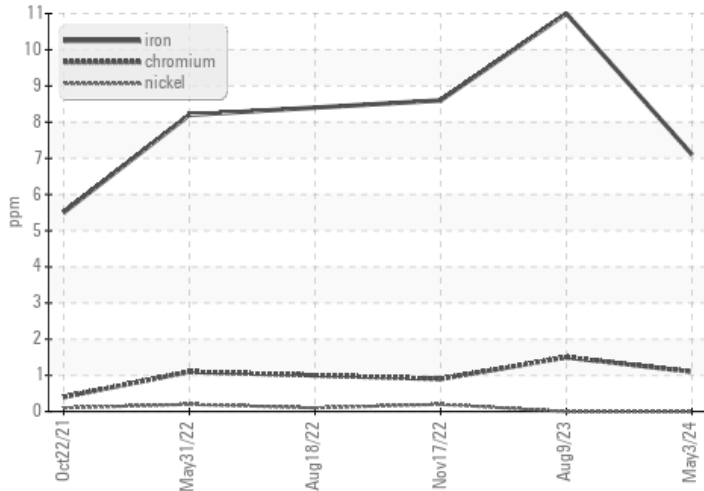
Calcium	ppm	747	1416	1382	1411
Magnesium	ppm	4	7	6	6
Zinc	ppm	753	707	687	679
Phosphorus	ppm	605	588	643	585
Barium	ppm	0	<1	0	0
Boron	ppm	<1	<1	<1	<1

Depot: CLOPEM  
 Unique No: 5776845  
 Signed: Wes Davis  
 Report Date: 16 May 2024

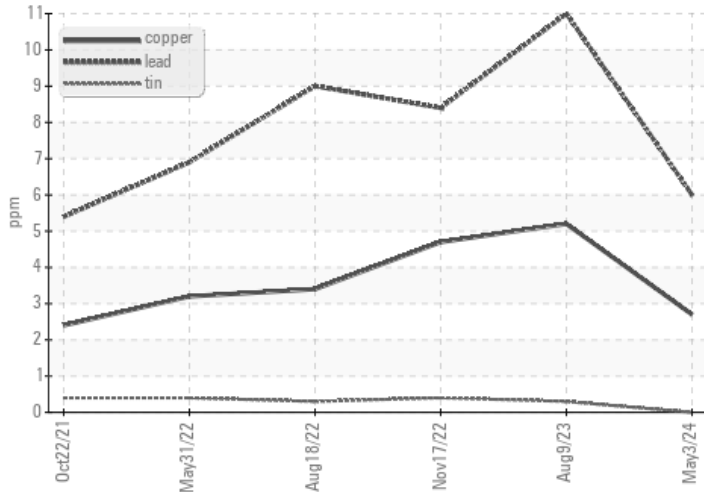


### Graphs

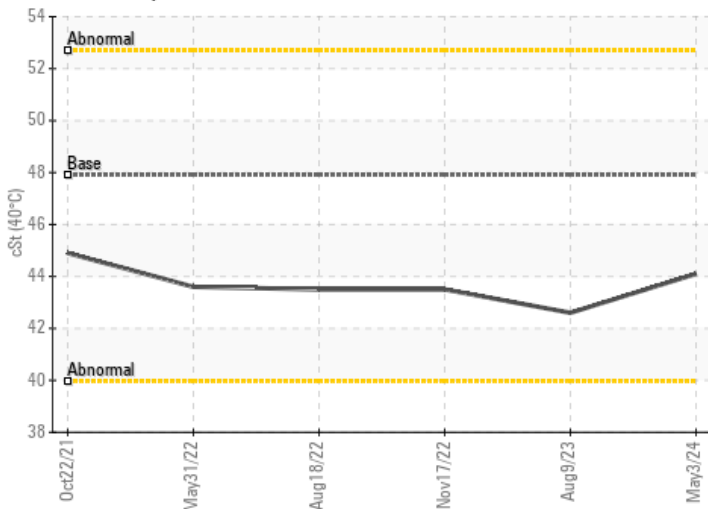
#### Ferrous Alloys



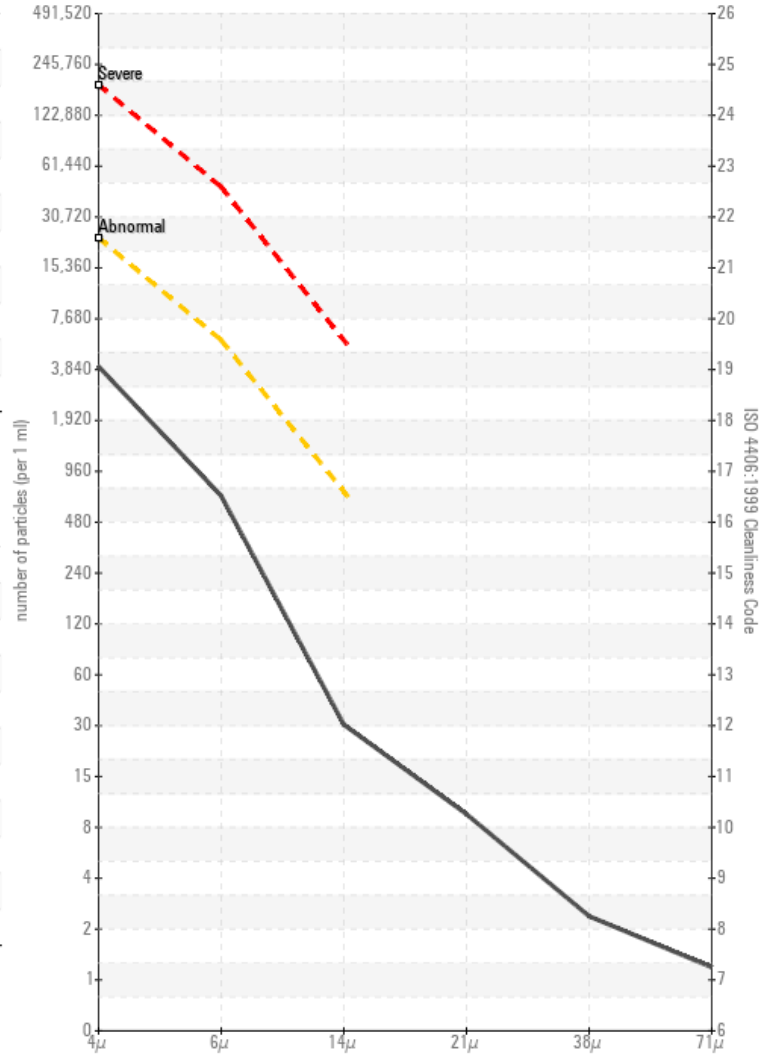
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

