

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 056255-1007 - Hydraulic System

Sample No: LH0270059

Oil Type: PETRO CANADA HARMONY HVI 36



#### SAMPLE INFORMATION

Sample Number	LH0270059	LH	LH0133030	---
Sample Date	14 Jul 2023	27 Jun 2022	24 Oct 2018	---
Machine Hours	16930	0	142295	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Not Chngd	Changed	---
Sample Status	ATTENTION	ABNORMAL	NORMAL	---

#### American Iron and Metal

9100 BOUL HENRI-BOURASSA EST  
MONTREAL, QC  
CA H1E 2S4  
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#### OIL CONDITION

Visc @ 40°C	cSt	36.7	46.4	52.3	---
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#### CONTAMINATION

Particles >4µm		25532	67049	18268	---
Particles >6µm		5762	5089	1469	---
Particles >14µm		422	54	44	---
ISO 4406:1999 (c)		22/20/16	23/20/13	21/18/13	---
Silicon	ppm	2	1	2	---
Sodium	ppm	2	<1	<1	---
Potassium	ppm	<1	<1	<1	---

#### Diagnosis

We recommend you service the filters on this component. 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. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.



#### WEAR METALS

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



#### ADDITIVES

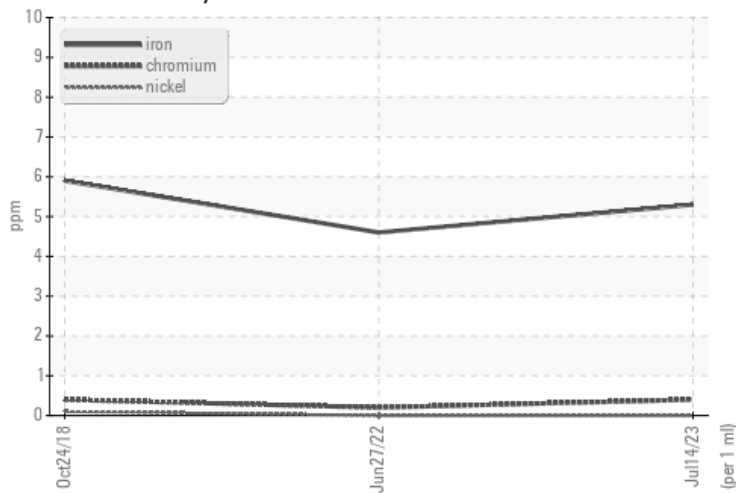
Calcium	ppm	266	98	98	---
Magnesium	ppm	80	4	107	---
Zinc	ppm	682	652	553	---
Phosphorus	ppm	607	524	436	---
Barium	ppm	0	0	0	---
Boron	ppm	10	<1	<1	---

Depot: AMEMON  
Unique No: 5616511  
Signed: Kevin Marson  
Report Date: 24 Jul 2023

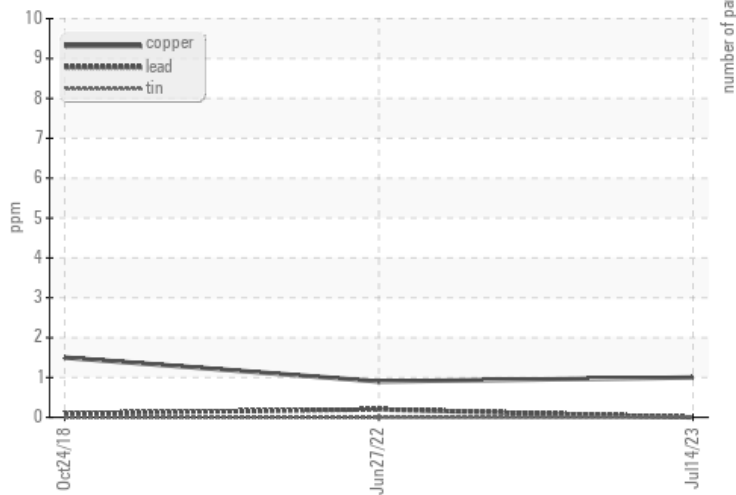


### GRAPHS

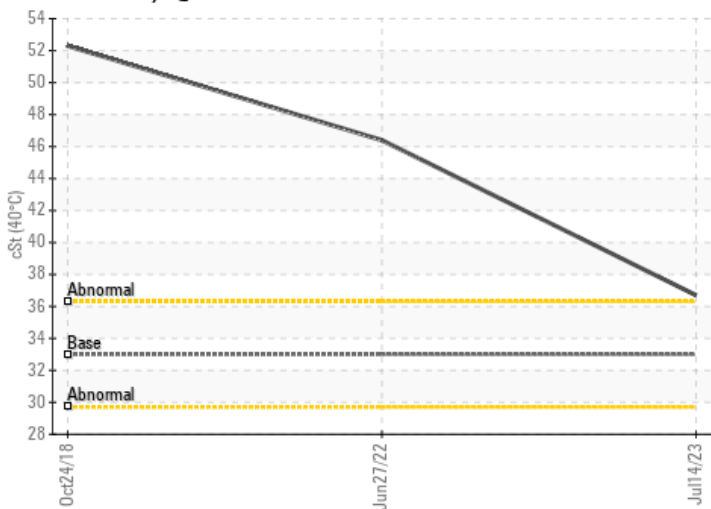
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

