

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### OR1855 - Hydraulic System

Sample No: LH0261140

Oil Type: PETRO CANADA HYDREX AW 32



GFL Environmental - 766 - Drummondville - Hauling - Solid Waste  
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Drummondville, QC  
CA J2B 8A9  
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#### SAMPLE INFORMATION

Sample Number	LH0261140	LH0260870	LH0239099	---
Sample Date	12 Jul 2023	05 May 2023	01 Nov 2022	---
Machine Hours	0	1567	530	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	Not Changd	Not Changd	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---



#### OIL CONDITION

Visc @ 40°C	cSt	38.9	39.0	43.3	---
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#### CONTAMINATION

Particles >4µm		7024	57558	21445	---
Particles >6µm		975	14960	2351	---
Particles >14µm		21	863	110	---
ISO 4406:1999 (c)		20/17/12	23/21/17	22/18/14	---
Silicon	ppm	3	4	4	---
Sodium	ppm	<1	2	1	---
Potassium	ppm	<1	1	<1	---



#### WEAR METALS

Iron	ppm	16	12	6	---
Copper	ppm	4	2	1	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	<1	1	1	---
Chromium	ppm	5	4	3	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	0	<1	0	---
Silver	ppm	4	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



#### ADDITIVES

Calcium	ppm	901	959	1335	---
Magnesium	ppm	2	2	4	---
Zinc	ppm	608	608	703	---
Phosphorus	ppm	572	587	681	---
Barium	ppm	0	0	0	---
Boron	ppm	<1	0	<1	---

#### Diagnosis

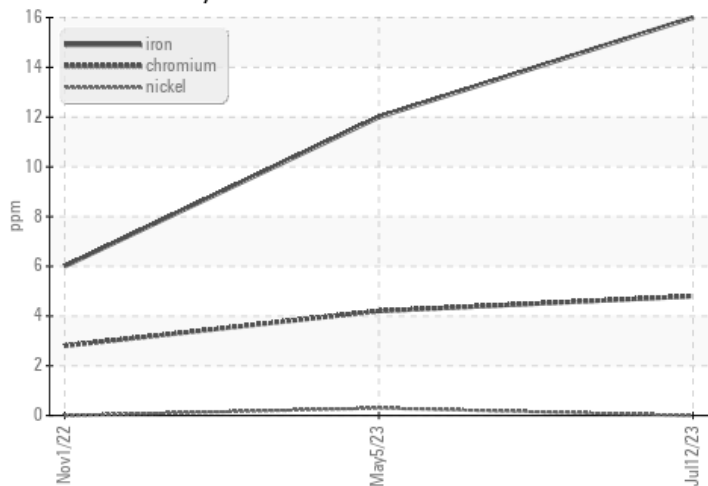
Confirm the source of the lubricant being utilized for top-up/fill. Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La propreté du système et du fluide est acceptable. La viscosité de l'huile est plus élevée que la normale. Ceci, en plus des niveaux d'additifs, indique que la marque ou le type d'huile ne correspond pas à ce qui a été signalé. L'état de l'huile est acceptable pour la durée de service.

Depot: GFL766  
Unique No: 5607190  
Signed: Kevin Marson  
Report Date: 14 Jul 2023

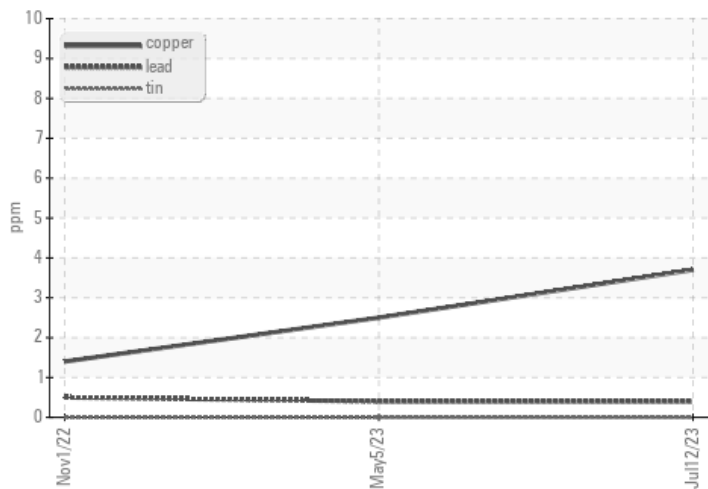


### GRAPHS

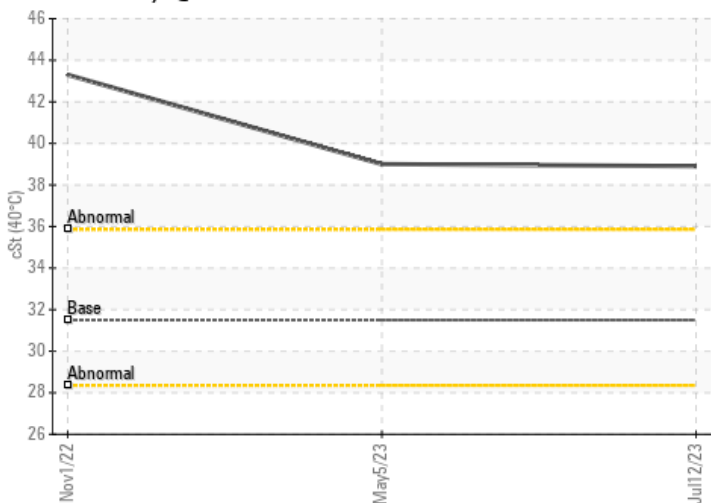
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

