

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(345481)] 128862-1216 - Hydraulic System

Sample No: LH0251203

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



#### SAMPLE INFORMATION

Sample Number	LH0251203	LH0235629	LH0203683	---
Sample Date	09 Feb 2023	07 Jun 2022	03 Aug 2021	---
Machine Hours	3024	1862	0	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	Not Changd	N/A	---
Sample Status	ABNORMAL	NORMAL	ABNORMAL	---

American Iron and Metal

10171 AVE PELLETIER

MONTREAL-NORD, QC

CA H1H 3R2

Contact: Allen Singerman



#### OIL CONDITION

Visc @ 40°C	cSt	44.4	43.3	45.2	---
-------------	-----	------	------	------	-----

T:

F:



#### CONTAMINATION

Water	%	---	---	0.092	---
Particles >4µm		41682	3056	30684	---
Particles >6µm		164	644	6365	---
Particles >14µm		11	45	201	---
ISO 4406:1999 (c)		23/15/11	19/17/13	22/20/15	---
Silicon	ppm	2	2	2	---
Sodium	ppm	2	1	1	---
Potassium	ppm	<1	2	1	---

#### Diagnosis

Nous recommandons le remplacement des filtres de ce composant. Confirm the source of the lubricant being utilized for top-up/fill. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. Le taux de fer est anormal. Le bas indice ferreux (PQ) indique que l'usure ferreuse est due à de la corrosion. Il y a une quantité modérée de particules (de 4 à 14 microns) dans l'huile. Les niveaux d'additifs indiquent l'ajout d'une autre marque ou d'un autre type d'huile. L'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.



#### WEAR METALS

PQ		3	0	---	---
Iron	ppm	81	50	19	---
Copper	ppm	3	3	2	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	0	<1	0	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	2	<1	<1	---
Vanadium	ppm	<1	0	0	---



#### ADDITIVES

Calcium	ppm	1017	1240	1349	---
Magnesium	ppm	8	4	5	---
Zinc	ppm	605	681	715	---
Phosphorus	ppm	572	629	665	---
Barium	ppm	0	0	0	---
Boron	ppm	1	1	<1	---

Depot: AIM101MON

Unique No: 5529619

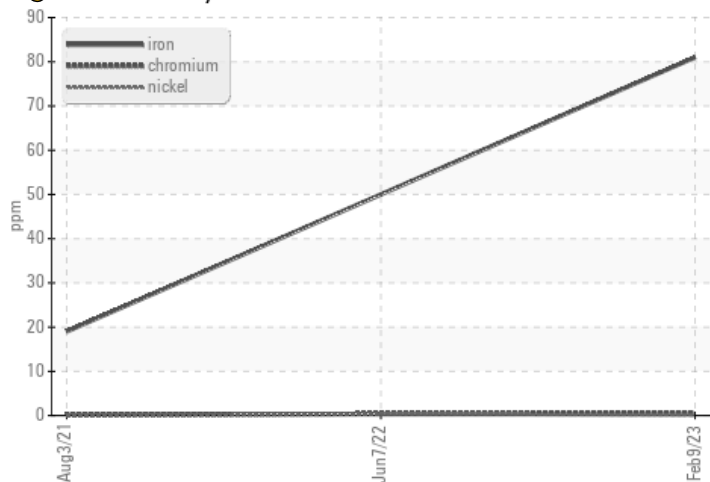
Signed: Kevin Marson

Report Date: 22 Feb 2023

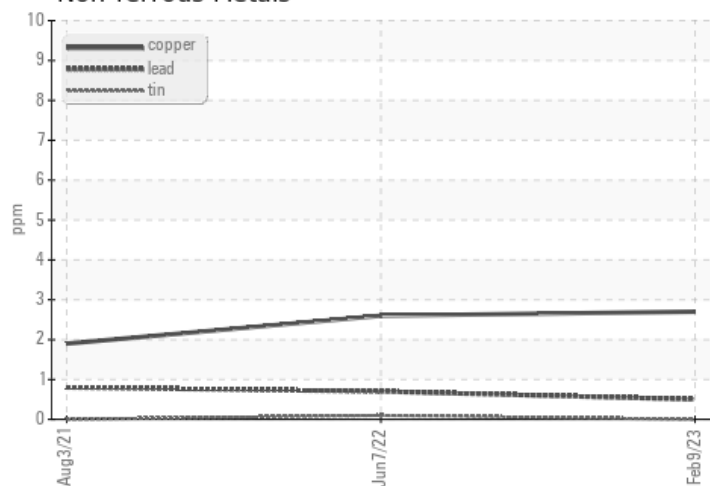


### GRAPHS

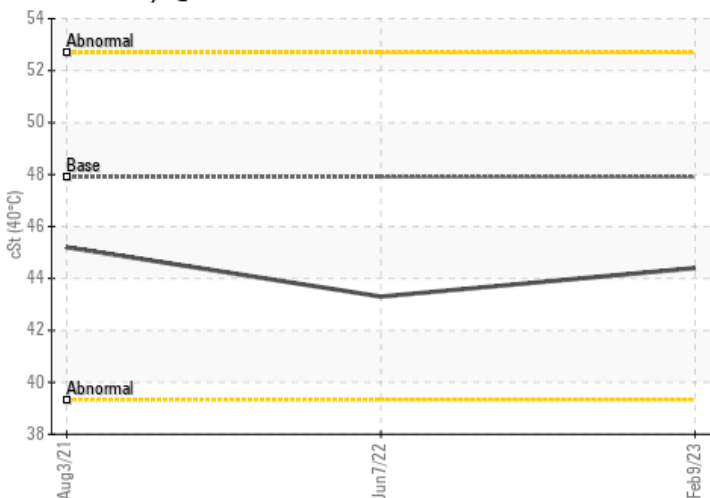
#### ● Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### ● Particle Count

