

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R946 046753-1491 - Hydraulic System

Sample No: LH  
Oil Type: NOT GIVEN



#### SAMPLE INFORMATION

Sample Number	LH	LH	LH	LH0235608
Sample Date	03 Aug 2023	01 Jun 2023	24 Mar 2023	09 Jun 2022
Machine Hours	9304	8716	8383	7551
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

**QIT - Rio Tinto Fer et Titane Inc.**  
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Sorel-Tracy, QC  
CA J3R 1M6  
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T:  
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#### OIL CONDITION

Visc @ 40°C	cSt	41.2	41.8	42.6	40.2
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#### CONTAMINATION

Particles >4µm		9219	25825	11263	16599
Particles >6µm		1066	5274	1218	1733
Particles >14µm		12	198	67	113
ISO 4406:1999 (c)		20/17/11	22/20/15	21/17/13	21/18/14
Silicon	ppm	4	4	5	3
Sodium	ppm	<1	<1	<1	2
Potassium	ppm	3	<1	<1	2



#### WEAR METALS

Iron	ppm	7	6	5	9
Copper	ppm	3	3	3	4
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	2	2	4
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	<1	0	<1
Titanium	ppm	3	3	2	4
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1855	1751	1858	1780
Magnesium	ppm	10	9	8	10
Zinc	ppm	977	929	970	1044
Phosphorus	ppm	843	822	867	886
Barium	ppm	0	0	0	0
Boron	ppm	<1	1	<1	1

#### Diagnosis

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 teneur en eau est négligeable. La propreté du système et du fluide est acceptable. L'état de l'huile est acceptable pour la durée de service.

Depot: QITGARAGE  
Unique No: 5619600  
Signed: Wes Davis  
Report Date: 09 Aug 2023

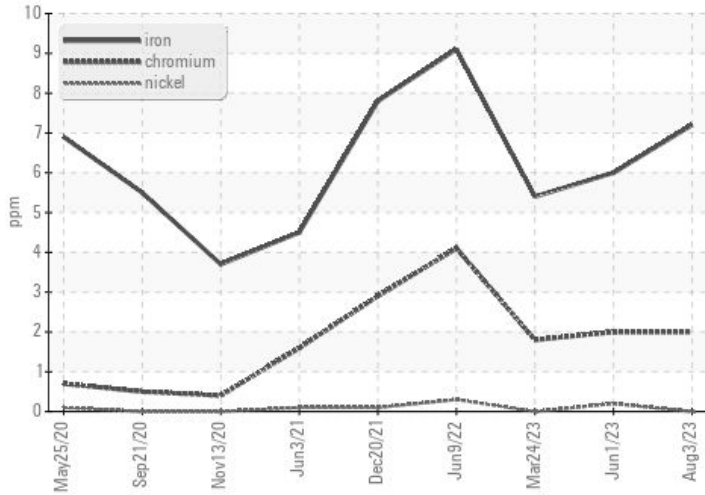
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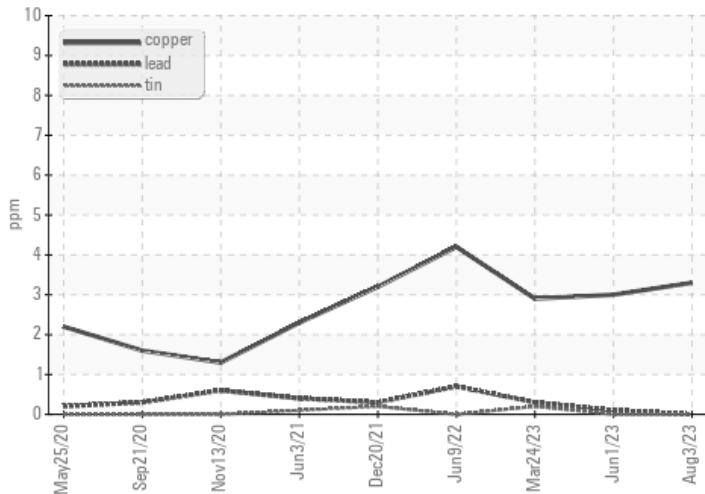


### GRAPHS

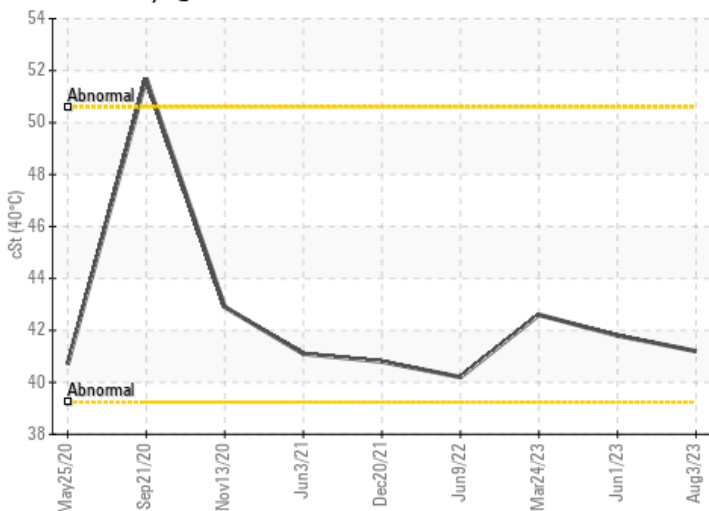
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

