

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(355226)] LIEBHERR R938 053191-1650 - Hydraulic System

Sample No: LH0195722

Oil Type: PETRO CANADA 10W30



#### INFORMATION SUR L'ÉCHANTILLON

Numéro d'échant.	LH0195722	LH0237768	LH0247523	---
Date d'échant.	26 Jul 2023	05 Apr 2023	24 Nov 2022	---
Heures de la Machine	3133	2606	2095	---
Heures de l'huile	0	0	0	---
Huile changée	Not Changd	Not Changd	Changed	---
Statut de l'échant.	NORMAL	NORMAL	ATTENTION	---

THOMAS CAVANAGH CONSTRUCTION LTD  
RR # 2, 9094 CAVANAGH ROAD  
ASHTON, ON  
CA K0A 1B0  
Contact: Keith



#### ÉTAT D'HUILE

Visc 40°C	cSt	52.1	52.8	50.6	---
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T: (613)257-4995  
F: (613)253-0071



#### CONTAMINATION

Eau	%	---	0.051	---	---
Particules >4µ		1124	1159	2032	---
Particules >6µ		302	241	365	---
Particules >14µ		29	12	12	---
ISO 4406:1999 (c)		17/15/12	17/15/11	18/16/11	---
Silicium	ppm	7	6	7	---
Sodium	ppm	4	4	4	---
Potassium	ppm	2	2	1	---

#### Diagnostic

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. Viscosity of sample indicates oil is within SAE 20 range, advise investigate. The condition of the oil is acceptable for the time in service.



#### MÉTAUX D'USURE

Fer	ppm	7	6	7	---
Cuivre	ppm	5	4	5	---
Plomb	ppm	<1	<1	<1	---
Étain	ppm	0	0	0	---
Aluminium	ppm	2	2	2	---
Chrome	ppm	<1	<1	<1	---
Molybdène	ppm	16	15	2	---
Nickel	ppm	0	<1	0	---
Titane	ppm	31	31	37	---
Argent	ppm	0	0	0	---
Manganèse	ppm	<1	<1	<1	---
Vanadium	ppm	<1	<1	<1	---



#### ADDITIFS

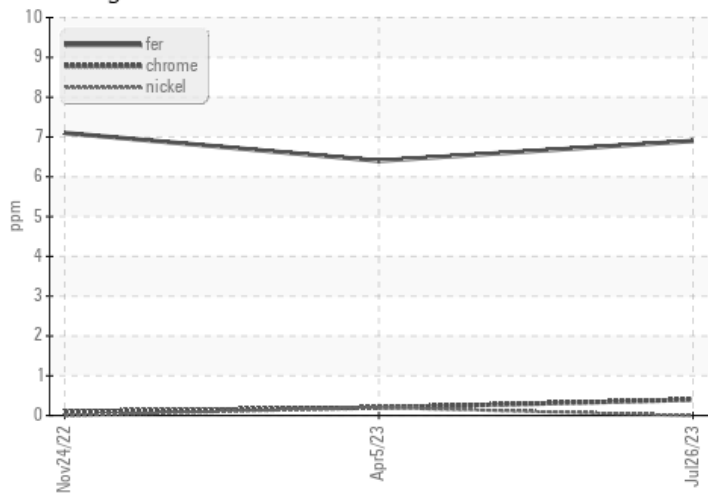
Calcium	ppm	1460	1534	1539	---
Magnésium	ppm	417	413	237	---
Zinc	ppm	1020	1015	902	---
Phosphore	ppm	984	979	896	---
Baryum	ppm	0	0	0	---
Bore	ppm	61	61	74	---

Depot: CAVASH  
Unique No: 5618026  
Signed: Kevin Marson  
Report Date: 31 Jul 2023

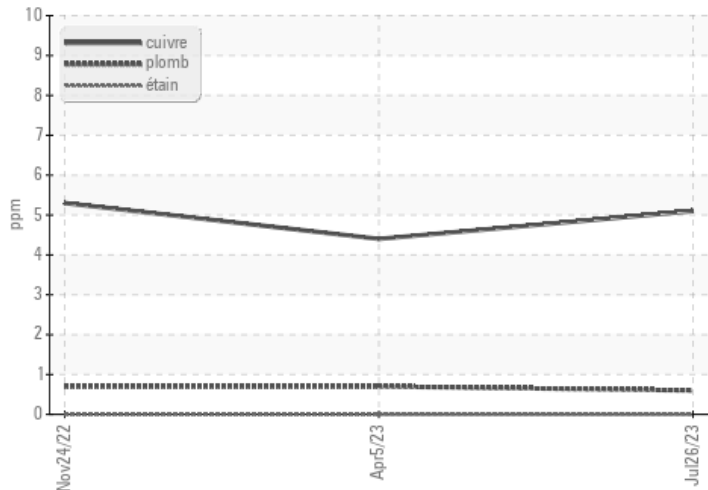


### GRAPHS

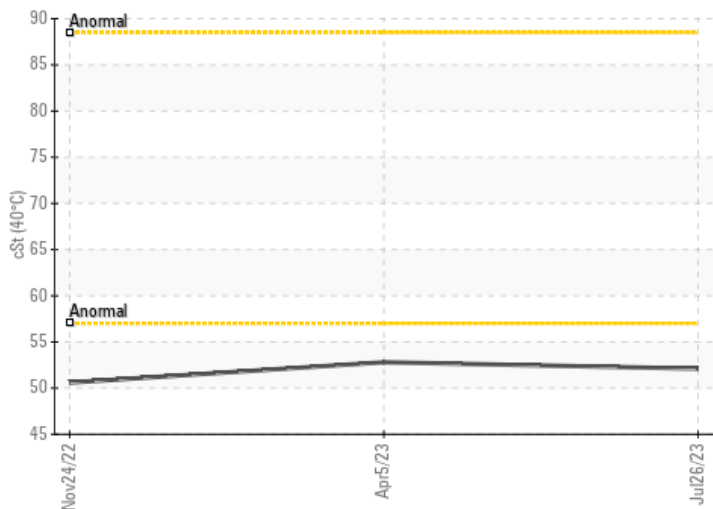
#### Alliages ferreux



#### Métaux non-ferreux



#### Viscosité 40°C



#### Comptage de particules

