

LIEBHERR

CONSTRUCTION EQUIPMENT



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

Sample No: LH0274643

Oil Type: LIEBHERR HYDRAULIC HVI



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INFORMATION SUR L'ÉCHANTILLON

Numéro d'échant.	LH0274643	LH0195722	LH0237768	LH0247523
Date d'échant.	01 Nov 2023	26 Jul 2023	05 Apr 2023	24 Nov 2022
Heures de la Machine	3610	3133	2606	2095
Heures de l'huile	0	0	0	0
Huile changée	Not Changd	Not Changd	Not Changd	Changed
Statut de l'échant.	ATTENTION	NORMAL	NORMAL	ATTENTION



ÉTAT D'HUILE

Visc 40°C	cSt	48.8	52.1	52.8	50.6
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CONTAMINATION

Eau	%	---	---	0.051	---
Particules >4µ		8642	1124	1159	2032
Particules >6µ		1835	302	241	365
Particules >14µ		114	29	12	12
ISO 4406:1999 (c)		20/18/14	17/15/12	17/15/11	18/16/11
Silicium	ppm	6	7	6	7
Sodium	ppm	4	4	4	4
Potassium	ppm	<1	2	2	1



MÉTAUX D'USURE

Fer	ppm	9	7	6	7
Cuivre	ppm	6	5	4	5
Plomb	ppm	<1	<1	<1	<1
Étain	ppm	0	0	0	0
Aluminium	ppm	1	2	2	2
Chrome	ppm	0	<1	<1	<1
Molybdène	ppm	18	16	15	2
Nickel	ppm	<1	0	<1	0
Titane	ppm	20	31	31	37
Argent	ppm	<1	0	0	0
Manganèse	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	<1	<1



ADDITIFS

Calcium	ppm	1299	1460	1534	1539
Magnésium	ppm	321	417	413	237
Zinc	ppm	919	1020	1015	902
Phosphore	ppm	809	984	979	896
Baryum	ppm	<1	0	0	0
Bore	ppm	58	61	61	74

Diagnostic

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. You have indicated that the oil has been changed to LIEBHERR HYDRAULIC HVI, however, it appears that this is a sample of the previous fluid PETRO CANADA 10W30. Please confirm on your next oil sample that the oil has indeed been changed to LIEBHERR HYDRAULIC HVI. 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. 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.

Depot: CAVASH

Unique No: 5672116

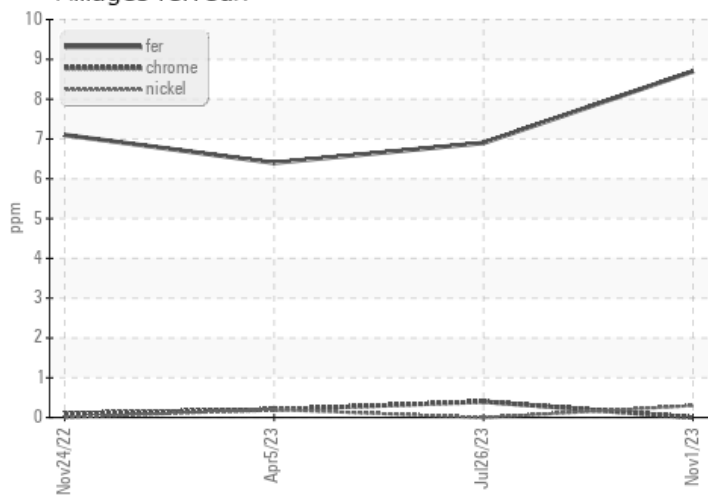
Signed: Bill Quesnel

Report Date: 10 Nov 2023

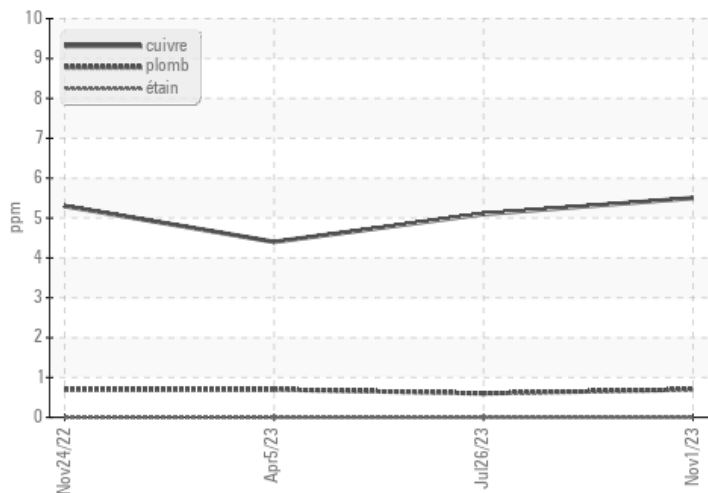


GRAPHS

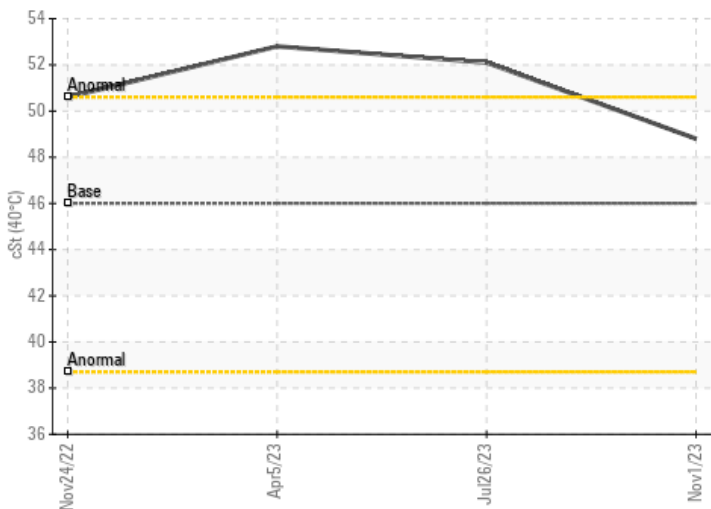
Alliages ferreux



Métaux non-ferreux



Viscosité 40°C



Comptage de particules

