

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(355226)] LIEBHERR R938 053191-1650 - Diesel Engine

Sample No: LH0195723

Oil Type: PETRO CANADA 10W40



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

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#### Diagnostic

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



#### INFORMATION SUR L'ÉCHANTILLON

Numéro d'échant.	LH0195723	LH0237765	LH0247522	---
Date d'échant.	26 Jul 2023	05 Apr 2023	18 Nov 2022	---
Heures de la Machine	3133	2606	2095	---
Heures de l'huile	0	0	0	---
Huile changée	Changed	Changed	Changed	---
Statut de l'échant.	NORMAL	ABNORMAL	ABNORMAL	---



#### ÉTAT D'HUILE

Visc 100°C	cSt	12.8	11.6	11.4	---
Oxydation (PA)	%	75	82	65	---



#### CONTAMINATION

% de suie	%	0	0	0	---
Nitration (PA)	%	78	87	72	---
Sulfatation (PA)	%	58	66	62	---
Glycol	%	NEG	NEG	NEG	---
Essence	%	<1.0	1.5	1.4	---
Silicium	ppm	8	7	8	---
Sodium	ppm	2	4	2	---
Potassium	ppm	1	<1	2	---



#### MÉTAUX D'USURE

Fer	ppm	5	5	6	---
Cuivre	ppm	3	2	4	---
Plomb	ppm	<1	<1	<1	---
Étain	ppm	<1	<1	<1	---
Aluminium	ppm	2	2	2	---
Chrome	ppm	<1	<1	<1	---
Molybdène	ppm	57	51	15	---
Nickel	ppm	0	<1	<1	---
Titane	ppm	1	8	26	---
Argent	ppm	0	0	0	---
Manganèse	ppm	<1	<1	<1	---
Vanadium	ppm	0	<1	<1	---



#### ADDITIFS

Calcium	ppm	1055	1039	2014	---
Magnésium	ppm	999	1039	212	---
Zinc	ppm	1238	1247	1082	---
Phosphore	ppm	1089	1134	989	---
Baryum	ppm	<1	0	<1	---
Bore	ppm	5	35	40	---

Depot: CAVASH  
Unique No: 5617909  
Signed: Wes Davis  
Report Date: 28 Jul 2023



### GRAPHS

