

LIEBHERR

CONSTRUCTION EQUIPMENT



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

Sample No: LH0279026

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.	LH0279026	LH0195723	LH0237765	LH0247522
Date d'échant.	01 Nov 2023	26 Jul 2023	05 Apr 2023	18 Nov 2022
Heures de la Machine	3610	3133	2606	2095
Heures de l'huile	0	0	0	0
Huile changée	Changed	Changed	Changed	Changed
Statut de l'échant.	NORMAL	NORMAL	ABNORMAL	ABNORMAL



ÉTAT D'HUILE

Visc 100°C	cSt	13.2	12.8	11.6	11.4
Oxydation (PA)	%	71	75	82	65



CONTAMINATION

% de suie	%	0	0	0	0
Nitration (PA)	%	73	78	87	72
Sulfatation (PA)	%	55	58	66	62
Glycol	%	NEG	NEG	NEG	NEG
Essence	%	<1.0	<1.0	1.5	1.4
Silicium	ppm	7	8	7	8
Sodium	ppm	2	2	4	2
Potassium	ppm	0	1	<1	2



MÉTAUX D'USURE

Fer	ppm	4	5	5	6
Cuivre	ppm	3	3	2	4
Plomb	ppm	<1	<1	<1	<1
Étain	ppm	0	<1	<1	<1
Aluminium	ppm	2	2	2	2
Chrome	ppm	<1	<1	<1	<1
Molybdène	ppm	59	57	51	15
Nickel	ppm	0	0	<1	<1
Titane	ppm	0	1	8	26
Argent	ppm	<1	0	0	0
Manganèse	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	<1



ADDITIFS

Calcium	ppm	1066	1055	1039	2014
Magnésium	ppm	973	999	1039	212
Zinc	ppm	1204	1238	1247	1082
Phosphore	ppm	986	1089	1134	989
Baryum	ppm	<1	<1	0	<1
Bore	ppm	1	5	35	40

Depot: CAVASH
Unique No: 5671907
Signed: Kevin Marson
Report Date: 08 Nov 2023



GRAPHS

