

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 033192 - Diesel Engine

Sample No: LH0276124

Oil Type: PETRO CANADA 10W40



#### INFORMATION SUR L'ÉCHANTILLON

Número d'échant.	LH0276124	LH0256979	LH0239362	LH0203171
Date d'échant.	14 Sep 2023	06 Mar 2023	30 Sep 2022	14 Jul 2022
Heures de la Machine	18717	17487	16970	16468
Heures de l'huile	0	0	0	0
Huile changée	Changed	Changed	Changed	Changed
Statut de l'échant.	NORMAL	NORMAL	ATTENTION	NORMAL

**WATERFORD SAND & GRAVEL**

10546 ON-3

WAINFLEET, ON

CA L0S 1V0

Contact: Service Manager



#### ÉTAT D'HUILE

Visc 40°C	cSt	---	---	● 87	---
Visc 100°C	cSt	● 14.3	● 14.0	● 13.5	● 12.4
Indice de viscosité (VI)	Scale	---	---	● 157	---
Oxydation (PA)	%	61	59	115	61

T:

F:

#### 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.



#### CONTAMINATION

% de suie	%	● 1.2	● 0.7	● 0	● 1.1
Nitration (PA)	%	69	66	29	68
Sulfatation (PA)	%	58	62	121	58
Glycol	%	NEG	NEG	NEG	NEG
Essence	%	<1.0	<1.0	<1.0	<1.0
Silicium	ppm	● 5	● 5	● 5	● 6
Sodium	ppm	● 1	● 2	● <1	● 2
Potassium	ppm	● <1	● 0	● <1	● 1



#### MÉTAUX D'USURE

Fer	ppm	● 15	● 15	● 23	● 22
Cuivre	ppm	● 1	● <1	● <1	● <1
Plomb	ppm	● 1	● <1	● <1	● <1
Étain	ppm	● 0	● <1	● 0	● <1
Aluminium	ppm	● 2	● 2	● <1	● 1
Chrome	ppm	● <1	● 0	● 0	● <1
Molybdène	ppm	● 60	● 61	● <1	● 60
Nickel	ppm	● <1	● <1	● 0	● 0
Titane	ppm	0	<1	0	<1
Argent	ppm	● 0	● 0	0	0
Manganèse	ppm	● <1	● <1	● <1	● <1
Vanadium	ppm	0	0	0	0



#### ADDITIFS

Calcium	ppm	● 1068	● 1152	● 32	● 1101
Magnésium	ppm	1006	● 974	● 5	1013
Zinc	ppm	● 1215	● 1215	● 107	● 1280
Phosphore	ppm	● 1088	1109	● 1196	● 1031
Baryum	ppm	● 0	● 0	● 0	● 0
Bore	ppm	● 1	● 2	● 215	● 5

Depot: WATWAI

Unique No: 5643803

Signed: Wes Davis

Report Date: 15 Sep 2023



### GRAPHS

