

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 033192 - Diesel Engine

Sample No: LH0277519

Oil Type: PETRO CANADA 10W40



#### INFORMATION SUR L'ÉCHANTILLON

Número d'échant.	LH0277519	LH0276124	LH0256979	LH0239362
Date d'échant.	20 Nov 2023	14 Sep 2023	06 Mar 2023	30 Sep 2022
Heures de la Machine	19190	18717	17487	16970
Heures de l'huile	0	0	0	0
Huile changée	Changed	Changed	Changed	Changed
Statut de l'échant.	NORMAL	NORMAL	NORMAL	ATTENTION

**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	● 14.2	● 14.3	● 14.0	● 13.5
Indice de viscosité (VI)	Scale	---	---	---	● 157
Oxydation (PA)	%	60	61	59	115

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

Eau	%	NEG	NEG	NEG	NEG
% de suie	%	● 0.9	● 1.2	● 0.7	● 0
Nitration (PA)	%	64	69	66	29
Sulfatation (PA)	%	58	58	62	121
Glycol	%	NEG	NEG	NEG	NEG
Essence	%	<1.0	<1.0	<1.0	<1.0
Silicium	ppm	● 4	● 5	● 5	● 5
Sodium	ppm	● 2	● 1	● 2	● <1
Potassium	ppm	● <1	● <1	● 0	● <1



#### MÉTAUX D'USURE

Fer	ppm	● 12	● 15	● 15	● 23
Cuivre	ppm	● <1	● 1	● <1	● <1
Plomb	ppm	● <1	● 1	● <1	● <1
Étain	ppm	● 0	● 0	● <1	● 0
Aluminium	ppm	● 2	● 2	● 2	● <1
Chrome	ppm	● 0	● <1	● 0	● 0
Molybdène	ppm	● 49	● 60	● 61	● <1
Nickel	ppm	● 0	● <1	● <1	● 0
Titane	ppm	0	0	<1	0
Argent	ppm	● <1	● 0	● 0	0
Manganèse	ppm	0	● <1	● <1	● <1
Vanadium	ppm	0	0	0	0



#### ADDITIFS

Calcium	ppm	● 1385	● 1068	● 1152	● 32
Magnésium	ppm	● 714	1006	● 974	● 5
Zinc	ppm	● 1180	● 1215	● 1215	● 107
Phosphore	ppm	● 996	● 1088	1109	● 1196
Baryum	ppm	● <1	● 0	● 0	● 0
Bore	ppm	● 24	● 1	● 2	● 215

Depot: WATWAI  
Unique No: 5682918  
Signed: Kevin Marson  
Report Date: 22 Nov 2023



### GRAPHS

