



### LIEBHERR L580 032314 - Diesel Engine

Sample No: LH

Oil Type: SHELL ROTELLA T4 15W40



#### INFORMATION SUR L'ÉCHANTILLON

Numéro d'échant.	LH	LH0208252	---	---
Date d'échant.	10 Nov 2023	16 Jan 2023	---	---
Heures de la Machine	15486	14000	---	---
Heures de l'huile	0	0	---	---
Huile changée	Changed	Changed	---	---
Statut de l'échant.	NORMAL	NORMAL	---	---

HUBERT & FILS

474 ROUTE 105  
BOIS-FRANC, QC  
CA J9E 3A9

Contact: Eric Brisebois

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T:

F:



#### ÉTAT D'HUILE

Visc 100°C	cSt	13.3	15.6	---	---
Oxydation (PA)	%	58	83	---	---



#### CONTAMINATION

Eau	%	NEG	NEG	---	---
% de suie	%	0.1	1.9	---	---
Nitration (PA)	%	47	94	---	---
Sulfatation (PA)	%	55	82	---	---
Glycol	%	NEG	0.0	---	---
Essence	%	<1.0	<1.0	---	---
Silicium	ppm	4	5	---	---
Sodium	ppm	2	2	---	---
Potassium	ppm	4	8	---	---



#### MÉTAUX D'USURE

Fer	ppm	3	27	---	---
Cuivre	ppm	<1	2	---	---
Plomb	ppm	0	4	---	---
Étain	ppm	0	<1	---	---
Aluminium	ppm	<1	2	---	---
Chrome	ppm	0	<1	---	---
Molybdène	ppm	<1	1	---	---
Nickel	ppm	<1	<1	---	---
Titane	ppm	0	<1	---	---
Argent	ppm	<1	0	---	---
Manganèse	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIFS

Calcium	ppm	1909	2506	---	---
Magnésium	ppm	18	24	---	---
Zinc	ppm	1043	1229	---	---
Phosphore	ppm	907	1100	---	---
Baryum	ppm	<1	0	---	---
Bore	ppm	155	62	---	---

#### 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.

Depot: HUBBOI

Unique No: 5681523

Signed: Wes Davis

Report Date: 15 Nov 2023



### GRAPHS

