LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR L580 032314 - Diesel Engine

Sample No: LH

Oil Type: SHELL ROTELLA T4 15W40

ample Number		LH	LH0208252	
ample Date		10 Nov 2023	16 Jan 2023	
lachine Hours		15486	14000	
Oil Hours		0	0	
Oil Changed		Changed	Changed	
Sample Status		NORMAL	NORMAL	
OIL	ONDITIO	ON		
	cSt		O 15.6	
/isc @ 100°C	%	13.358	83	
Oxidation (PA)	70	58	03	
		TIAN		
CON	TAMINA	LION		
	AMINA %	0.1	O 1.9	
Soot %			○ 1.9 94	
Soot % Nitration (PA)	%	0.1		
Soot % Nitration (PA) Sulfation (PA)	%	○ 0.1 47	94	
Goot % Nitration (PA) Gulfation (PA) Glycol	% % %	○ 0.14755	94 82	
	% % %	© 0.1 47 55 NEG	94 82 0 0.0	
Goot % Sulfration (PA) Sulfation (PA) Glycol Fuel	% % % %	© 0.1 47 55 NEG <1.0	94 82 0.0 <1.0	



HUBERT & FILS
474 ROUTE 105
BOIS-FRANC, QC
CA J9E 3A9
Contact: Eric Brisebois
ericbrisebois99@gmail.com

T: F:

Diagnosis

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.

Iron	ppm	3	O 27					
Copper	ppm	○ <1	02					
Lead	ppm	0	4					
Tin	ppm	0	O <1					
Aluminum	ppm	○ <1	O 2					
Chromium	ppm	0	O <1					
Molybdenum	ppm	○ <1	O 1					
Nickel	ppm	○ <1	O <1					
Titanium	ppm	0	<1					
Silver	ppm	○ <1	0					
Manganese	ppm	0	O <1					
Vanadium	ppm	0	0					
ADDI								
ADDITIVES								

2506

1229

1100

 \bigcirc 0

O 24

Depot: HUBBOI
Unique No: 5681523
Signed: Wes Davis
Report Date: 15 Nov 2023

ppm

ppm

ppm

ppm

ppm

ppm

1909

18

1043

907

0<1

155

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

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GRAPHS

