



## LIEBHERR L580 067666-1760 - Diesel Engine

70

Sample No: LH0233936

Oil Type: PETRO CANADA 10W30

%

## **SAMPLE INFORMATION**

Sample Number		LH0233936	LH0176029	LH0234002			
Sample Date		22 Jan 2024	02 Aug 2023	15 Dec 2022			
Machine Hours		5478	1520	1018			
Oil Hours		0	0	0			
Oil Changed		Changed	N/A	Changed			
Sample Status		NORMAL	NORMAL	NORMAL			
<b>OIL CONDITION</b>							
Visc @ 100°C	cSt	0 12.4	0 13.1	11.3			

Oxidation (PA)

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Water	%	NEG	NEG	NEG	
Soot %	%	0	0	0	
Nitration (PA)	%	70	51	62	
Sulfation (PA)	%	58	53	65	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	0.9	
Silicon	ppm	06	6	6	
Sodium	ppm	02	2	2	
Potassium	ppm	<b>○</b> <1	○ <1	○ <1	

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# **WEAR METALS**

Iron	ppm	0 13	0 4	6	
Copper	ppm	0 2	07	23	
Lead	ppm	<mark></mark> <1	◯ <1	0 1	
Tin	ppm	0 (	◯ <1	◯ <1	
Aluminum	ppm	0 2	◯ <1	01	
Chromium	ppm	○ <1	○ <1	◯ <1	
Molybdenum	ppm	0 61	57	54	
Nickel	ppm	<mark></mark> <1	0	0	
Titanium	ppm	0	<1	<1	
Silver	ppm	0 (	0	0	
Manganese	ppm	0	◯ <1	◯ <1	
Vanadium	ppm	0	0	0	

ADDITIVES						
Calcium	ppm	0 1221	0 1072	0 1115		
Magnesium	ppm	0 1011	0 979	926		
Zinc	ppm	0 1283	0 1185	0 1111		
Phosphorus	ppm	0 1074	0 1044	993		
Barium	ppm	0 🔘	01	04		
Boron	ppm	02	02	0 10		

Depot: Unique No: Signed: Report Date:

#### WES654STI 5723017 Wes Davis 07 Feb 2024

Report Id: WES654STI [WCAMIS] 02613922 (Generated: 02/07/2024 13:02:08) Rev: 1



WEST CARLETON SAND & GRAVEL INC.

3232 CARP ROAD CARP, ON CA K0A 1L0 Contact: Troy Whalen twhalen@acon.com T: (613)836-3090 F:

### Diagnosis

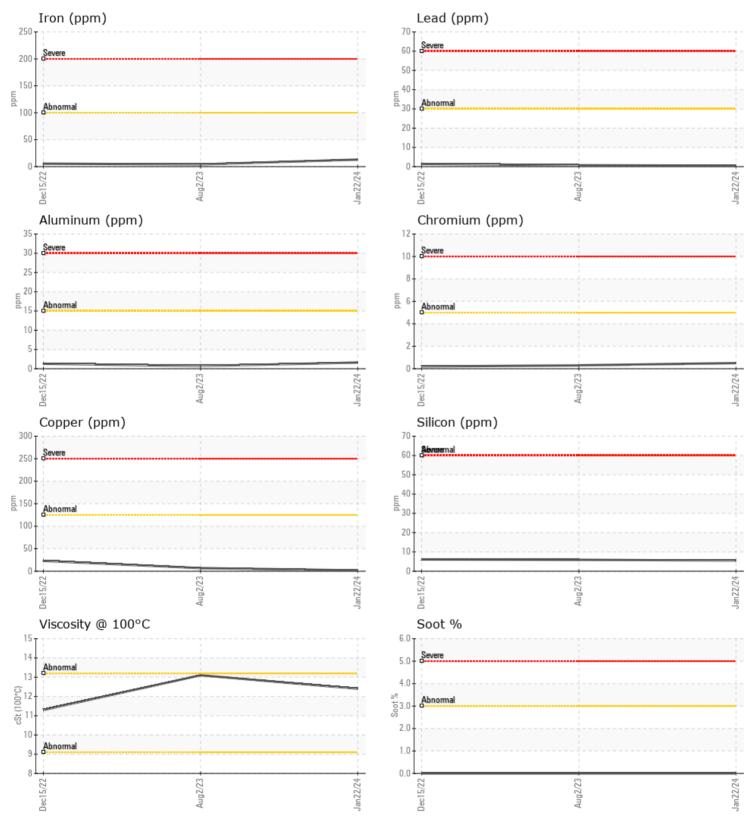
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.





GRAPHS

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