# CONSTRUCTION EQUIPMENT

## [(363344)] LIEBHERR LH40C 135581-1527 - Diesel Engine

Sample No: LH0270109

Oil Type: DIESEL ENGINE OIL SAE 40

### SAMPLE INFORMATION

Sample Number		LH0270109	LH0265820	LH0256850	LH0251906
Sample Date		25 Sep 2023	28 Jun 2023	05 Apr 2023	12 Jan 2023
Machine Hours		4405	3831	3230	2648
Oil Hours		0	0	0	0
Oil Changed		N/A	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL
Visc @ 100°C	CONDIT	<b>ION</b>	0 13.1	○ 13.0	0 12.9
Oxidation (PA)	%	Ŭ	0	0	0
	TAMIN	66 ATION	63	63	68
Water	%			0.026	
Soot %	%	0	0	0	0
Nitration (DA)	0/	<u> </u>	00	07	00

		•	$\sim$		<b>V</b> .	$\sim$	
Nitration (PA)	%	66		63	67		69
Sulfation (PA)	%	52		51	59		55
Glycol	%	NEG		NEG	0.0		NEG
Fuel	%	<1.0		<1.0	<1.0		<1.0
Silicon	ppm	06	$\bigcirc$	5	6	$\bigcirc$	6
Sodium	ppm	02	$\bigcirc$	1	01	$\bigcirc$	2
Potassium	ppm	<b>○</b> <1	$\bigcirc$	) 1	0	$\bigcirc$	0

WEAR METALS							
Iron	ppm	<b>3</b>	03	03	03		
Copper	ppm	<b>3</b>	0 2	02	0 4		
Lead	ppm	<b>○</b> <1	○ <1	○ <1	◯ <1		
Tin	ppm	0 🔘	0	○ <1	◯ <1		
Aluminum	ppm	<b>○</b> <1	01	01	2		
Chromium	ppm	0 🔘	○ <1	0	0		
Molybdenum	ppm	0 61	57	○ 59	57		
Nickel	ppm	0 🔘	0	0	◯ <1		
Titanium	ppm	0 🔘	0	0	0		
Silver	ppm	<b>○</b> <1	0	0	0		
Manganese	ppm	0 (	○ <1	○ <1	◯ <1		
Vanadium	ppm	0	0	0	0		

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	ITIVES				
Calcium	ppm	0 1066	0 1026	0 1139	0 1084
Magnesium	ppm	0 989	964	960	934
Zinc	ppm	0 1217	0 1162	0 1184	0 1162
Phosphorus	ppm	0 1007	0 1050	0 1074	0 1030
Barium	ppm	<b>○</b> <1	0	0	0
Boron	ppm	<b>3</b>	03	5	2



CAN353TOR 5646223 Wes Davis 26 Sep 2023

Submitted By: ?





#### CANADA IRON AND METAL CO. LTD.

3534 DUNDAS STREET WEST TORONTO, ON CA M6S 2S1 Contact: Joshua Kiminisky josh@canadairon.com T: F: (416)762-1808

#### Diagnosis

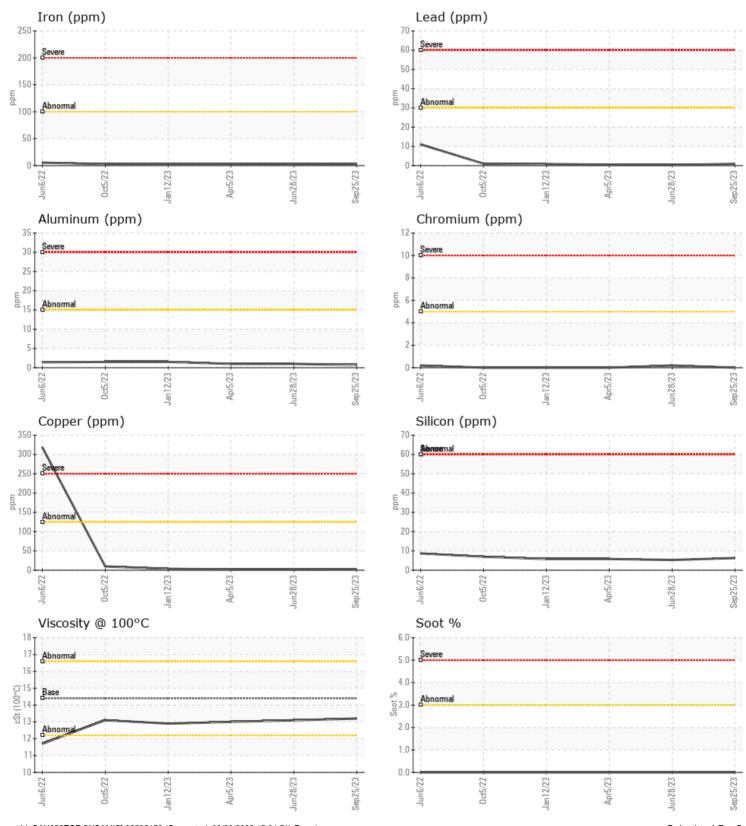
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.





GRAPHS

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