

LIEBHERR

CONSTRUCTION EQUIPMENT



[(363344)] LIEBHERR LH40C135581-1527 - 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

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



OIL CONDITION

Visc @ 100°C	cSt	13.2	13.1	13.0	12.9
Oxidation (PA)	%	66	63	63	68



CONTAMINATION

Water	%	---	---	0.026	---
Soot %	%	0	0	0	0
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	6	5	6	6
Sodium	ppm	2	1	1	2
Potassium	ppm	<1	1	0	0

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.



WEAR METALS

Iron	ppm	3	3	3	3
Copper	ppm	3	2	2	4
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	1	1	2
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	61	57	59	57
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

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

Depot: CAN353TOR
 Unique No: 5646223
 Signed: Wes Davis
 Report Date: 26 Sep 2023



GRAPHS

