

LIEBHERR

CONSTRUCTION EQUIPMENT



[(363344)] LIEBHERR LH40C135581-1527 - Diesel Engine

Sample No: LH0278779

Oil Type: DIESEL ENGINE OIL SAE 40



SAMPLE INFORMATION

Sample Number	LH0278779	LH0277659	LH0270109	LH0265820
Sample Date	15 Feb 2024	07 Dec 2023	25 Sep 2023	28 Jun 2023
Machine Hours	5458	4925	4405	3831
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

CANADA IRON AND METAL CO. LTD.
 3534 DUNDAS STREET WEST
 TORONTO, ON
 CA M6S 2S1
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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.2	13.2	13.1
Oxidation (PA)	%	62	62	66	63



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	60	60	66	63
Sulfation (PA)	%	53	51	52	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	6	5
Sodium	ppm	<1	2	2	1
Potassium	ppm	<1	0	<1	1

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.



WEAR METALS

Iron	ppm	2	3	3	3
Copper	ppm	1	2	3	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	1	1	<1	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	56	56	61	57
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1093	1134	1066	1026
Magnesium	ppm	945	917	989	964
Zinc	ppm	1169	1176	1217	1162
Phosphorus	ppm	1013	950	1007	1050
Barium	ppm	0	<1	<1	0
Boron	ppm	2	3	3	3

Depot: CAN353TOR
 Unique No: 5733315
 Signed: Wes Davis
 Report Date: 16 Feb 2024

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GRAPHS

