

LIEBHERR

CONSTRUCTION EQUIPMENT



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

Sample No: LH0296395

Oil Type: DIESEL ENGINE OIL SAE 40



Sample Information

Sample Number	LH0296395	LH0278779	LH0277659	LH0270109
Sample Date	07 Jul 2024	15 Feb 2024	07 Dec 2023	25 Sep 2023
Machine Hours	8400	5458	4925	4405
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

CANADA IRON AND METAL CO. LTD.
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Oil Condition

Visc @ 100°C	cSt	13.8	13.3	13.2	13.2
Oxidation (PA)	%	60	62	62	66



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	57	60	60	66
Sulfation (PA)	%	51	53	51	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	6	6
Sodium	ppm	1	<1	2	2
Potassium	ppm	<1	<1	0	<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	2	3	3
Copper	ppm	<1	1	2	3
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	1	1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	56	56	56	61
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	983	1093	1134	1066
Magnesium	ppm	931	945	917	989
Zinc	ppm	1162	1169	1176	1217
Phosphorus	ppm	968	1013	950	1007
Barium	ppm	<1	0	<1	<1
Boron	ppm	3	2	3	3

Depot: CAN353TOR
 Unique No: 5811639
 Signed: Wes Davis
 Report Date: 08 Jul 2024



Graphs

