

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(340260)] LIEBHERR LH40C 127925-1527 - Diesel Engine

Sample No: LH0276265

Oil Type: PETRO CANADA DURON UHP E6 10W40



#### Sample Information

Sample Number	LH0276265	LH0285017	LH0277658	LH0270151
Sample Date	07 May 2024	15 Feb 2024	07 Dec 2023	27 Sep 2023
Machine Hours	8032	7504	7010	6592
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**CANADA IRON AND METAL CO. LTD.**  
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#### Oil Condition

Visc @ 40°C	cSt	89.4	---	91.3	---
Visc @ 100°C	cSt	13.4	13.7	13.5	13.4
Viscosity Index (VI)	Scale	151	---	149	---
Oxidation (PA)	%	64	63	62	68



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	67	61	60	68
Sulfation (PA)	%	52	53	51	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	7	6
Sodium	ppm	1	<1	2	2
Potassium	ppm	0	<1	<1	0



#### Wear Metals

Iron	ppm	3	3	3	3
Copper	ppm	1	<1	2	2
Lead	ppm	0	<1	<1	1
Tin	ppm	0	0	0	0
Aluminum	ppm	2	2	1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	60	56	56	59
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	1103	1099	1163	1055
Magnesium	ppm	976	946	915	974
Zinc	ppm	1210	1173	1179	1200
Phosphorus	ppm	1020	1008	961	997
Barium	ppm	<1	<1	<1	<1
Boron	ppm	5	2	3	3

#### 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.

Depot: CAN353TOR  
 Unique No: 5775314  
 Signed: Wes Davis  
 Report Date: 08 May 2024



### Graphs

