

# LIEBHERR

## CONSTRUCTION EQUIPMENT



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

Sample No: LH0277658

Oil Type: PETRO CANADA DURON UHP E6 10W40



#### SAMPLE INFORMATION

Sample Number	LH0277658	LH0270151	LH0251578	LH0251901
Sample Date	07 Dec 2023	27 Sep 2023	05 Apr 2023	12 Jan 2023
Machine Hours	7010	6592	5459	4907
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**CANADA IRON AND METAL CO. LTD.**  
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#### OIL CONDITION

Visc @ 40°C	cSt	91.3	---	---	---
Visc @ 100°C	cSt	13.5	13.4	13.4	13.4
Viscosity Index (VI)	Scale	149	---	---	---
Oxidation (PA)	%	62	68	64	69

#### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Light concentration of visible metal present. All other 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.



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	60	68	68	70
Sulfation (PA)	%	51	53	59	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	6	7
Sodium	ppm	2	2	1	2
Potassium	ppm	<1	0	0	0



#### WEAR METALS

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



#### ADDITIVES

Calcium	ppm	1163	1055	1127	1086
Magnesium	ppm	915	974	944	943
Zinc	ppm	1179	1200	1169	1169
Phosphorus	ppm	961	997	1068	1057
Barium	ppm	<1	<1	0	0
Boron	ppm	3	3	5	4

**Depot:** CAN353TOR  
**Unique No:** 5695054  
**Signed:** Kevin Marson  
**Report Date:** 14 Dec 2023



### GRAPHS

