

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH40C 117763-1527 - Diesel Engine

Sample No: LH0285111

Oil Type: PETRO CANADA 10W40



#### SAMPLE INFORMATION

Sample Number	LH0285111	LH0270260	LH0256610	LH0247079
Sample Date	08 Feb 2024	25 Sep 2023	13 Apr 2023	16 Dec 2022
Machine Hours	6604	5976	5457	5012
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**MOFFATT SCRAP IRON & METAL INC.**  
 9620 GUELPH LINE  
 CAMPBELLVILLE, ON  
 CA L0P 1B0  
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#### OIL CONDITION

Visc @ 100°C	cSt	12.6	13.0	12.8	12.7
Oxidation (PA)	%	68	61	58	65



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	78	70	63	73
Sulfation (PA)	%	55	51	50	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	8	6	7
Sodium	ppm	1	2	1	1
Potassium	ppm	<1	1	<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	4	3	3	3
Copper	ppm	2	2	1	3
Lead	ppm	1	1	<1	2
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	<1	1	1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	57	61	60	60
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1188	1084	1164	1109
Magnesium	ppm	930	1003	962	967
Zinc	ppm	1189	1229	1206	1199
Phosphorus	ppm	1004	1057	1098	1097
Barium	ppm	0	<1	0	0
Boron	ppm	2	3	6	<1

Depot: MOFMOF  
 Unique No: 5723694  
 Signed: Wes Davis  
 Report Date: 09 Feb 2024



### GRAPHS

