

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH40C 117763-1527 - Diesel Engine

Sample No: LH0270260

Oil Type: PETRO CANADA 10W40



#### SAMPLE INFORMATION

Sample Number	LH0270260	LH0256610	LH0247079	LH0203167
Sample Date	25 Sep 2023	13 Apr 2023	16 Dec 2022	15 Jul 2022
Machine Hours	5976	5457	5012	4444
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	13.0	12.8	12.7	12.5
Oxidation (PA)	%	61	58	65	62



#### CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	70	63	73	67
Sulfation (PA)	%	51	50	55	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	6	7	8
Sodium	ppm	2	1	1	2
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	3	3	3	4
Copper	ppm	2	1	3	2
Lead	ppm	1	<1	2	1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	1	1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	61	60	60	58
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1084	1164	1109	1075
Magnesium	ppm	1003	962	967	972
Zinc	ppm	1229	1206	1199	1236
Phosphorus	ppm	1057	1098	1097	1004
Barium	ppm	<1	0	0	0
Boron	ppm	3	6	<1	5

Depot: MOFMOF  
 Unique No: 5646226  
 Signed: Bill Quesnel  
 Report Date: 26 Sep 2023



### GRAPHS

