

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH40C 117763-1527 - Diesel Engine

Sample No: LH0291156

Oil Type: PETRO CANADA 10W40



#### Sample Information

Sample Number	LH0291156	LH0285111	LH0270260	LH0256610
Sample Date	06 May 2024	08 Feb 2024	25 Sep 2023	13 Apr 2023
Machine Hours	7044	6604	5976	5457
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  
 Contact: Paul Brochu  
 maintenance@moffatsscrapiron.ca  
 T: (905)854-2792  
 F: (905)854-1225



#### Oil Condition

Visc @ 100°C	cSt	13.1	12.6	13.0	12.8
Oxidation (PA)	%	61	68	61	58



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	65	78	70	63
Sulfation (PA)	%	51	55	51	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	7	8	6
Sodium	ppm	1	1	2	1
Potassium	ppm	0	<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	4	3	3
Copper	ppm	2	2	2	1
Lead	ppm	0	1	1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	1	2	<1	1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	58	57	61	60
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	1077	1188	1084	1164
Magnesium	ppm	962	930	1003	962
Zinc	ppm	1181	1189	1229	1206
Phosphorus	ppm	972	1004	1057	1098
Barium	ppm	0	0	<1	0
Boron	ppm	4	2	3	6

Depot: MOFMOF  
 Unique No: 5774920  
 Signed: Wes Davis  
 Report Date: 07 May 2024



### Graphs

