

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [BLANCHARD] LIEBHERR LH22 139277 - Diesel Engine

Sample No: LH0282717

Oil Type: PETRO CANADA 15W40



**LIEBHERR CANADA LTD.**  
 1015 SUTTON DRIVE  
 BURLINGTON, ON  
 CA L7L 5Z8  
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#### Sample Information

Sample Number	LH0282717	LH0261017	LH0243039	---
Sample Date	08 Apr 2024	06 Jun 2023	01 Dec 2022	---
Machine Hours	2161	1670	570	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	NORMAL	---



#### Oil Condition

Visc @ 40°C	cSt	---	71.6	---	---
Visc @ 100°C	cSt	13.3	11.7	11.8	---
Viscosity Index (VI)	Scale	---	158	---	---
Oxidation (PA)	%	75	78	174	---



#### Contamination

Water	%	NEG	NEG	NEG	---
Soot %	%	0	0	0	---
Nitration (PA)	%	69	78	86	---
Sulfation (PA)	%	62	58	103	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	0.5	<1.0	---
Silicon	ppm	4	32	56	---
Sodium	ppm	3	5	5	---
Potassium	ppm	1	<1	<1	---



#### Wear Metals

Iron	ppm	8	19	26	---
Copper	ppm	4	6	15	---
Lead	ppm	0	0	1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	1	1	3	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	9	62	37	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	6	---
Vanadium	ppm	0	0	0	---



#### Additives

Calcium	ppm	1938	930	1851	---
Magnesium	ppm	230	1142	725	---
Zinc	ppm	1149	1247	913	---
Phosphorus	ppm	951	1118	851	---
Barium	ppm	<1	0	7	---
Boron	ppm	108	34	91	---

#### 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: LIEMIS  
 Unique No: 5761852  
 Signed: Wes Davis  
 Report Date: 15 Apr 2024



### Graphs

