

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [NACG] LIEBHERR LRH100 115117 - Diesel Engine

Sample No: LH0292291

Oil Type: PETRO CANADA 10W40



#### Sample Information

Sample Number	LH0292291	LH0070683	---	---
Sample Date	04 Jul 2024	01 Mar 2013	---	---
Machine Hours	5402	872	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

**LIEBHERR CANADA LTD.**  
 1015 SUTTON DRIVE  
 BURLINGTON, ON  
 CA L7L 5Z8  
 Contact: Steve Lehto  
 steve.lehto@liebherr.com  
 T: (905)319-9222  
 F: (905)319-6617



#### Oil Condition

Visc @ 100°C	cSt	13.3	12.9	---	---
Oxidation (PA)	%	58	61	---	---



#### Contamination

Water	%	NEG	NEG	---	---
Soot %	%	0	0	---	---
Nitration (PA)	%	74	111	---	---
Sulfation (PA)	%	52	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	4	6	---	---
Sodium	ppm	3	6	---	---
Potassium	ppm	<1	4	---	---

#### 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	5	17	---	---
Copper	ppm	4	9	---	---
Lead	ppm	<1	4	---	---
Tin	ppm	0	2	---	---
Aluminum	ppm	2	2	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	89	<1	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	1	---	---
Vanadium	ppm	0	0	---	---



#### Additives

Calcium	ppm	2203	3875	---	---
Magnesium	ppm	20	22	---	---
Zinc	ppm	1158	1224	---	---
Phosphorus	ppm	1030	986	---	---
Barium	ppm	<1	32	---	---
Boron	ppm	60	153	---	---

Depot: LIEMIS  
 Unique No: 5812198  
 Signed: Wes Davis  
 Report Date: 09 Jul 2024



### Graphs

