

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [HR DOOREKAMP] LIEBHERR LH120C 057245-1103 - Diesel Engine

Sample No: LH0276311

Oil Type: PETRO CANADA 10W30



#### SAMPLE INFORMATION

Sample Number	LH0276311	LH0125931	LH0118769	---
Sample Date	25 Mar 2024	23 Apr 2018	24 Nov 2017	---
Machine Hours	9643	2776	2198	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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#### OIL CONDITION

Visc @ 40°C	cSt	---	---	70.2	---
Visc @ 100°C	cSt	11.2	10.7	10.9	---
Viscosity Index (VI)	Scale	---	---	145	---
Oxidation (PA)	%	55	59	61	---

#### 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.



#### CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0	0.2	0.2	---
Nitration (PA)	%	44	54	68	---
Sulfation (PA)	%	50	53	67	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.0	---
Silicon	ppm	2	3	5	---
Sodium	ppm	3	2	4	---
Potassium	ppm	<1	<1	1	---



#### WEAR METALS

Iron	ppm	5	5	8	---
Copper	ppm	<1	2	3	---
Lead	ppm	0	<1	<1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	<1	1	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	59	62	53	---
Nickel	ppm	<1	<1	1	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---



#### ADDITIVES

Calcium	ppm	1051	1119	1346	---
Magnesium	ppm	977	969	819	---
Zinc	ppm	1185	1270	1282	---
Phosphorus	ppm	1005	1071	1044	---
Barium	ppm	0	<1	<1	---
Boron	ppm	1	1	3	---

Depot: LIEMIS  
 Unique No: 5749982  
 Signed: Wes Davis  
 Report Date: 27 Mar 2024



### GRAPHS

