

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [MITCHELL METALS] LIEBHERR R92254275 - Diesel Engine

Sample No: LH0260500

Oil Type: PETRO CANADA 10W40



**Liebherr Canada**  
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 Richmond, BC  
 CA V6W 1J8  
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#### SAMPLE INFORMATION

Sample Number	LH0260500	LH0238608	---	---
Sample Date	31 Jul 2023	22 Feb 2023	---	---
Machine Hours	1546	518	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---



#### OIL CONDITION

Visc @ 100°C	cSt	13.8	12.1	---	---
Oxidation (PA)	%	60	171	---	---



#### CONTAMINATION

Soot %	%	0	0	---	---
Nitration (PA)	%	55	91	---	---
Sulfation (PA)	%	57	102	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.5	---	---
Silicon	ppm	22	56	---	---
Sodium	ppm	2	9	---	---
Potassium	ppm	<1	4	---	---



#### WEAR METALS

Iron	ppm	13	44	---	---
Copper	ppm	6	117	---	---
Lead	ppm	<1	4	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	1	5	---	---
Chromium	ppm	<1	1	---	---
Molybdenum	ppm	59	37	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	4	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

Calcium	ppm	1038	1806	---	---
Magnesium	ppm	1007	805	---	---
Zinc	ppm	1191	948	---	---
Phosphorus	ppm	1027	851	---	---
Barium	ppm	0	4	---	---
Boron	ppm	2	104	---	---

#### 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: LIERIC  
 Unique No: 5632325  
 Signed: Wes Davis  
 Report Date: 30 Aug 2023



### GRAPHS

