

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### U23.14.90029 - Diesel Engine

Sample No: LH0270210

Oil Type: LIEBHERR MOTOROIL 5W30



#### SAMPLE INFORMATION

Sample Number	LH0270210	---	---	---
Sample Date	15 Nov 2023	---	---	---
Machine Hours	55	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

**LIEBHERR CANADA LTD. - REMAN**  
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#### OIL CONDITION

Visc @ 100°C	cSt	12.4	---	---	---
Base Number (BN)	mg KOH/g	10.6	---	---	---
Oxidation (PA)	%	46	---	---	---

#### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



#### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0	---	---	---
Nitration (PA)	%	59	---	---	---
Sulfation (PA)	%	46	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	13	---	---	---
Sodium	ppm	3	---	---	---
Potassium	ppm	4	---	---	---



#### WEAR METALS

Iron	ppm	6	---	---	---
Copper	ppm	8	---	---	---
Lead	ppm	1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	<1	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	2039	---	---	---
Magnesium	ppm	543	---	---	---
Zinc	ppm	905	---	---	---
Phosphorus	ppm	749	---	---	---
Barium	ppm	32	---	---	---
Boron	ppm	145	---	---	---

**Depot:** REMAN  
**Unique No:** 10819390  
**Signed:** Don Baldrige  
**Report Date:** 09 Jan 2024



### GRAPHS

