

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 00679 - Diesel Engine

Sample No: LH0230708

Oil Type: SAE 0W20



#### SAMPLE INFORMATION

Sample Number	LH0230708	LH0230781	---	---
Sample Date	21 Sep 2023	13 Oct 2022	---	---
Machine Hours	2500	2000	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	MARGINAL	---	---

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

Visc @ 100°C	cSt	7.1	7.5	---	---
Oxidation (PA)	%	45	45	---	---



#### CONTAMINATION

Soot %	%	0	0	---	---
Nitration (PA)	%	68	55	---	---
Sulfation (PA)	%	47	48	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	2.7	---	---
Silicon	ppm	8	6	---	---
Sodium	ppm	2	2	---	---
Potassium	ppm	1	<1	---	---

#### Diagnosis

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Metal levels are typical for a new component breaking in. 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	1	1	---	---
Copper	ppm	<1	<1	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	4	4	---	---
Aluminum	ppm	1	1	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	67	66	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

Calcium	ppm	1170	1192	---	---
Magnesium	ppm	499	497	---	---
Zinc	ppm	721	730	---	---
Phosphorus	ppm	642	697	---	---
Barium	ppm	0	0	---	---
Boron	ppm	157	172	---	---

Depot: REMAN  
 Unique No: 5645950  
 Signed: Wes Davis  
 Report Date: 25 Sep 2023



### GRAPHS

