

LIEBHERR

CONSTRUCTION EQUIPMENT



[(345484)] LIEBHERR R914 050032-1511 - Diesel Engine

Sample No: LH0279201

Oil Type: SAE 5W30



ROLAND MUNGER
 2665 AVENUE DU LABRADOR
 BAIE COMEAU, QC
 CA G4Z 3B9
 Contact: Roland Munger

T: (661)015-6791
 F:



SAMPLE INFORMATION

Sample Number	LH0279201	---	---	---
Sample Date	19 Mar 2024	---	---	---
Machine Hours	1426	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	11.9	---	---	---
Oxidation (PA)	%	75	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	87	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	8	---	---	---
Sodium	ppm	7	---	---	---
Potassium	ppm	2	---	---	---

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Chromium ppm levels are abnormal. Ring wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



WEAR METALS

Iron	ppm	42	---	---	---
Copper	ppm	9	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	7	---	---	---
Chromium	ppm	5	---	---	---
Molybdenum	ppm	52	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	997	---	---	---
Magnesium	ppm	1021	---	---	---
Zinc	ppm	1152	---	---	---
Phosphorus	ppm	893	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	14	---	---	---

Depot: ROLBAI
Unique No: 5748429
Signed: Kevin Marson
Report Date: 20 Mar 2024



GRAPHS

