

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R934C 25286 - Diesel Engine

Sample No: LH0274712

Oil Type: SAE 5W30



**LIEBHERR CANADA LTD.**  
 1015 SUTTON DRIVE  
 BURLINGTON, ON  
 CA L7L 5Z8  
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#### SAMPLE INFORMATION

Sample Number	LH0274712	---	---	---
Sample Date	28 Aug 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---



#### OIL CONDITION

Visc @ 100°C	cSt	15.1	---	---	---
Oxidation (PA)	%	59	---	---	---



#### CONTAMINATION

Soot %	%	2.2	---	---	---
Nitration (PA)	%	68	---	---	---
Sulfation (PA)	%	68	---	---	---
Glycol	%	0.028	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	6	---	---	---
Sodium	ppm	11	---	---	---
Potassium	ppm	8	---	---	---



#### WEAR METALS

Iron	ppm	10	---	---	---
Copper	ppm	<1	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	1	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	11	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	2106	---	---	---
Magnesium	ppm	51	---	---	---
Zinc	ppm	1057	---	---	---
Phosphorus	ppm	948	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	103	---	---	---

#### Diagnosis

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. The fluid was specified as (GENERIC) SAE 5W30, however, a fluid match indicates that this fluid is SAE 40 Diesel Engine Oil. Please confirm the oil type and grade on your next sample. All component wear rates are normal. Test for glycol is positive. There is a light concentration of glycol present in the oil. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable due to the presence of contaminants.

Depot: LIEMIS  
 Unique No: 5632699  
 Signed: Wes Davis  
 Report Date: 31 Aug 2023



### GRAPHS

