

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 24303 - Diesel Engine

Sample No: LH0276300

Oil Type: SAE 5W30



#### SAMPLE INFORMATION

Sample Number	LH0276300	---	---	---
Sample Date	25 Mar 2024	---	---	---
Machine Hours	19048	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

LIEBHERR CANADA LTD.

1015 SUTTON DRIVE

BURLINGTON, ON

CA L7L 5Z8

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T:

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#### OIL CONDITION

Visc @ 100°C	cSt	12.4	---	---	---
Oxidation (PA)	%	54	---	---	---



#### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	3.2	---	---	---
Nitration (PA)	%	77	---	---	---
Sulfation (PA)	%	68	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	0.9	---	---	---
Silicon	ppm	6	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	1	---	---	---

#### Diagnosis

We recommend that you drain the oil from the component if this has not already been done. All component wear rates are normal. Fuel content negligible. Light concentration of carbon/soot present in the oil. The oil is no longer serviceable due to the presence of contaminants.



#### WEAR METALS

Iron	ppm	17	---	---	---
Copper	ppm	<1	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	1	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	40	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	8	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	1524	---	---	---
Magnesium	ppm	507	---	---	---
Zinc	ppm	1117	---	---	---
Phosphorus	ppm	943	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	59	---	---	---

Depot: LIEMIS

Unique No: 5749706

Signed: Wes Davis

Report Date: 27 Mar 2024



### GRAPHS

