

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 24999 - Diesel Engine

Sample No: LH0270499

Oil Type: NOT GIVEN



#### SAMPLE INFORMATION

Sample Number	LH0270499	---	---	---
Sample Date	23 Jul 2023	---	---	---
Machine Hours	544	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

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

Visc @ 100°C	cSt	● 12.0	---	---	---
Oxidation (PA)	%	201	---	---	---



#### CONTAMINATION

Soot %	%	● 0	---	---	---
Nitration (PA)	%	102	---	---	---
Sulfation (PA)	%	108	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	● 1.5	---	---	---
Silicon	ppm	● 10	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● 2	---	---	---

#### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the brand, type, and viscosity of the oil on your next sample. Metal levels are typical for a new component breaking in. Light fuel dilution occurring. No other contaminants were detected in the oil. The condition of the oil is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	● 14	---	---	---
Copper	ppm	● 216	---	---	---
Lead	ppm	● 8	---	---	---
Tin	ppm	● 1	---	---	---
Aluminum	ppm	● 4	---	---	---
Chromium	ppm	● 3	---	---	---
Molybdenum	ppm	● 47	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	● 1385	---	---	---
Magnesium	ppm	● 935	---	---	---
Zinc	ppm	● 862	---	---	---
Phosphorus	ppm	● 730	---	---	---
Barium	ppm	● 29	---	---	---
Boron	ppm	● 69	---	---	---

Depot: LIEMIS  
 Unique No: 5616712  
 Signed: Kevin Marson  
 Report Date: 25 Jul 2023



### GRAPHS

