

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 2007048544 - Diesel Engine

Sample No: LH0270311

Oil Type: MOBIL DELVAC 1200 SP15W40



#### SAMPLE INFORMATION

Sample Number	LH0270311	LH0270312	---	---
Sample Date	20 Nov 2023	30 Oct 2023	---	---
Machine Hours	27998	0	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

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

Visc @ 100°C	cSt	13.3	13.0	---	---
Oxidation (PA)	%	52	49	---	---



#### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.7	0	---	---
Nitration (PA)	%	66	53	---	---
Sulfation (PA)	%	52	48	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	9	---	---
Sodium	ppm	21	20	---	---
Potassium	ppm	1	1	---	---

#### Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	18	9	---	---
Copper	ppm	7	7	---	---
Lead	ppm	2	1	---	---
Tin	ppm	1	<1	---	---
Aluminum	ppm	2	2	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	54	60	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

Calcium	ppm	1881	2117	---	---
Magnesium	ppm	696	807	---	---
Zinc	ppm	1172	1337	---	---
Phosphorus	ppm	997	1148	---	---
Barium	ppm	40	39	---	---
Boron	ppm	48	66	---	---

Depot: REMAN  
 Unique No: 5685893  
 Signed: Kevin Marson  
 Report Date: 06 Dec 2023



### GRAPHS

