

LIEBHERR

CONSTRUCTION EQUIPMENT



2021.16.0227 - Diesel Engine

Sample No: LH0277801
 Oil Type: DIESEL ENGINE OIL SAE 10W30



Sample Information

Sample Number	LH0277801	---	---	---
Sample Date	26 Mar 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

LIEBHERR CANADA LTD. - REMAN
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 CA L7L 5Z8
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Oil Condition

Visc @ 100°C	cSt	10.1	---	---	---
Oxidation (PA)	%	42	---	---	---



Contamination

Water	%	NEG	---	---	---
Soot %	%	0	---	---	---
Nitration (PA)	%	61	---	---	---
Sulfation (PA)	%	44	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	6.4	---	---	---
Silicon	ppm	3	---	---	---
Sodium	ppm	2	---	---	---
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. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The oil is no longer serviceable due to the presence of contaminants.



Wear Metals

Iron	ppm	4	---	---	---
Copper	ppm	1	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	0	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



Additives

Calcium	ppm	2129	---	---	---
Magnesium	ppm	394	---	---	---
Zinc	ppm	807	---	---	---
Phosphorus	ppm	722	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	131	---	---	---

Depot: REMAN
 Unique No: 5749983
 Signed: Wes Davis
 Report Date: 28 Mar 2024



Graphs

