

LIEBHERR

CONSTRUCTION EQUIPMENT



C22.02.90017 - Diesel Engine

Sample No: LH0270595

Oil Type: NOT GIVEN



SAMPLE INFORMATION

Sample Number	LH0270595	---	---	---
Sample Date	17 Aug 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	SEVERE	---	---	---

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

Visc @ 100°C	cSt	● 1.6	---	---	---
Oxidation (PA)	%	27	---	---	---



CONTAMINATION

Water	%	● 4.732	---	---	---
Soot %	%	● 0.1	---	---	---
Nitration (PA)	%	100	---	---	---
Sulfation (PA)	%	15	---	---	---
Glycol	%	● 0.0	---	---	---
Fuel	%	● 80.8	---	---	---
Silicon	ppm	● 30	---	---	---
Sodium	ppm	● 110	---	---	---
Potassium	ppm	● 123	---	---	---



WEAR METALS

Iron	ppm	● 67	---	---	---
Copper	ppm	● 12	---	---	---
Lead	ppm	● 2	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● 12	---	---	---
Chromium	ppm	● 4	---	---	---
Molybdenum	ppm	● 7	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	6	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	266	---	---	---
Magnesium	ppm	● 100	---	---	---
Zinc	ppm	174	---	---	---
Phosphorus	ppm	106	---	---	---
Barium	ppm	● 3	---	---	---
Boron	ppm	● 6	---	---	---

Diagnosis

We advise that you check the fuel injection system. We advise that you check for the source of water entry. 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. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a high amount of fuel present in the oil. There is a high concentration of water present in the oil. Test for glycol is negative. Tests confirm the presence of fuel in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: REMAN
Unique No: 5629733
Signed: Kevin Marson
Report Date: 21 Aug 2023



GRAPHS

