

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R956 C052633 - Diesel Engine

Sample No: LH0220982

Oil Type: {unknown}



WIMME SAND AND GRAVEL
 PO BOX 195
 PLOVER, MI
 US 54467
 Contact: Service Manager



Sample Information

Sample Number	LH0220982	---	---	---
Sample Date	15 May 2024	---	---	---
Machine Hours	2940	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



Oil Condition

Visc @ 100°C	cSt	11.4	---	---	---
Base Number (BN)	mg KOH/g	14.2	---	---	---
Oxidation (PA)	%	48	---	---	---

T:
F:



Contamination

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	103	---	---	---
Sulfation (PA)	%	44	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	1.9	---	---	---
Silicon	ppm	8	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	0	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



Wear Metals

Iron	ppm	8	---	---	---
Copper	ppm	<1	---	---	---
Lead	ppm	1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	2	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



Additives

Calcium	ppm	4325	---	---	---
Magnesium	ppm	70	---	---	---
Zinc	ppm	1209	---	---	---
Phosphorus	ppm	1075	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	279	---	---	---

Depot: WIMPLO
Unique No: 11043841
Signed: Jonathan Hester
Report Date: 28 May 2024



Graphs

