

LIEBHERR

CONSTRUCTION EQUIPMENT



[[GELENA ROAD GRAVEL]] LIEBHERR L556 068648-1827 - Diesel

Sample No: LHMC133217

Oil Type: MOBIL DELVAC 1300 SUPER 10W30



SAMPLE INFORMATION

Sample Number	LHMC133217	---	---	---
Sample Date	11 Sep 2023	---	---	---
Machine Hours	1000	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

FINKBINER EQUIPMENT

3501 N. MAIN ST
EAST PEORIA, IL
US 61611

Contact: Mike Plummer
mplummer@finkbiner.com

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OIL CONDITION

Visc @ 100°C	cSt	11.6	---	---	---
Base Number (BN)	mg KOH/g	6.6	---	---	---
Oxidation (PA)	%	67	---	---	---



CONTAMINATION

Soot %	%	0.1	---	---	---
Nitration (PA)	%	77	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	9	---	---	---
Sodium	ppm	0	---	---	---
Potassium	ppm	5	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). 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 suitable for further service.



WEAR METALS

Iron	ppm	3	---	---	---
Copper	ppm	216	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	5	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1295	---	---	---
Magnesium	ppm	663	---	---	---
Zinc	ppm	820	---	---	---
Phosphorus	ppm	663	---	---	---
Barium	ppm	14	---	---	---
Boron	ppm	71	---	---	---

Depot: FINEASIL
Unique No: 10711185
Signed: Jonathan Hester
Report Date: 26 Oct 2023



GRAPHS

