

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-119204 - Diesel Engine

Sample No: LHMC133241

Oil Type: LIEBHERR 10W30



SAMPLE INFORMATION

Sample Number	LHMC133241	LHMC141002	---	---
Sample Date	24 Feb 2024	02 Feb 2021	---	---
Machine Hours	8819	1119	---	---
Oil Hours	0	1119	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

ALTER TRADING

2424 CLARKE STREET
PEORIA, IL
US 61602
Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	● 10.8	● 11.8	---	---
Base Number (BN)	mg KOH/g	● 7.3	---	---	---
Oxidation (PA)	%	106	178	---	---

T:
F:

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	● 0.1	● 0.1	---	---
Nitration (PA)	%	91	98	---	---
Sulfation (PA)	%	63	100	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	● 1.6	---	---
Silicon	ppm	● 10	● 11	---	---
Sodium	ppm	● 2	● 4	---	---
Potassium	ppm	● <1	● 5	---	---



WEAR METALS

Iron	ppm	● 6	● 15	---	---
Copper	ppm	● 2	● 306	---	---
Lead	ppm	● <1	● 6	---	---
Tin	ppm	● <1	● 0	---	---
Aluminum	ppm	● 1	● 2	---	---
Chromium	ppm	● <1	● <1	---	---
Molybdenum	ppm	● 43	● 45	---	---
Nickel	ppm	● <1	● 1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	● 0	0	---	---
Manganese	ppm	<1	● 1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	● 1762	● 1403	---	---
Magnesium	ppm	● 529	● 921	---	---
Zinc	ppm	● 961	● 891	---	---
Phosphorus	ppm	● 804	● 733	---	---
Barium	ppm	● 0	● 31	---	---
Boron	ppm	● 35	● 57	---	---

Depot: ALTPEO
Unique No: 10910070
Signed: Jonathan Hester
Report Date: 05 Mar 2024



GRAPHS

