

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934 036883-1007 - Diesel Engine

Sample No: LH06117612

Oil Type: DIESEL ENGINE OIL SAE 5W40



FINKBINER EQUIPMENT CO.
 15 W 400 N FRONTAGE RD
 BURR RIDGE, IL
 US 60527
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SAMPLE INFORMATION

Sample Number	LH06117612	LH0244371	LHMC114439	---
Sample Date	22 Feb 2024	20 Dec 2022	19 Mar 2018	---
Machine Hours	6031	5877	4895	---
Oil Hours	250	317	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	14.3	13.8	14.86	---
Base Number (BN)	mg KOH/g	7.0	7.7	---	---
Oxidation (PA)	%	45	49	52	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	1.1	0.6	2.4	---
Nitration (PA)	%	64	55	58	---
Sulfation (PA)	%	50	50	64	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	9	8	8	---
Sodium	ppm	1	<1	2	---
Potassium	ppm	1	2	2	---



WEAR METALS

Iron	ppm	5	4	29	---
Copper	ppm	<1	<1	3	---
Lead	ppm	<1	0	<1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	1	<1	1	---
Chromium	ppm	0	0	<1	---
Molybdenum	ppm	14	69	80	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	0	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1238	2024	1441	---
Magnesium	ppm	631	190	468	---
Zinc	ppm	799	1116	1073	---
Phosphorus	ppm	695	962	990	---
Barium	ppm	0	0	<1	---
Boron	ppm	82	111	233	---

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.

Depot: LEC0033
 Unique No: 10926445
 Signed: Wes Davis
 Report Date: 14 Mar 2024



GRAPHS

