

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 117095-1216 - Diesel Engine

Sample No: LH06104010

Oil Type: LIEBHERR MOTOROIL 5W30



RECO EQUIPMENT INC.
 1615 JP HENESSY DRIVE
 LAVERGNE, TN
 US 37086
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SAMPLE INFORMATION

Sample Number	LH06104010	LH06072055	---	---
Sample Date	24 Feb 2024	18 Dec 2023	---	---
Machine Hours	8681	8371	---	---
Oil Hours	662	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	11.4	11.1	---	---
Base Number (BN)	mg KOH/g	15.2	11.5	---	---
Oxidation (PA)	%	45	57	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	103	118	---	---
Sulfation (PA)	%	42	51	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	8	8	---	---
Sodium	ppm	3	2	---	---
Potassium	ppm	1	0	---	---



WEAR METALS

Iron	ppm	10	8	---	---
Copper	ppm	<1	1	---	---
Lead	ppm	0	2	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	3	2	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	2	9	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	4200	4082	---	---
Magnesium	ppm	37	102	---	---
Zinc	ppm	1255	1205	---	---
Phosphorus	ppm	1058	1057	---	---
Barium	ppm	0	0	---	---
Boron	ppm	232	242	---	---

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: RECLAV
 Unique No: 10902240
 Signed: Wes Davis
 Report Date: 29 Feb 2024



GRAPHS

