

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 1253-117759 - Diesel Engine

Sample No: LH0210944

Oil Type: LIEBHERR MOTOROIL 5W30



RECO EQUIPMENT INC.
1615 JP HENESSY DRIVE
LAVERGNE, TN
US 37086
Contact: KEN FISCHER

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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 acceptable for the time in service.



SAMPLE INFORMATION

Sample Number	LH0210944	LH0210925	LH0210902	---
Sample Date	02 Feb 2024	29 Jul 2023	29 Jul 2023	---
Machine Hours	7907	6250	5000	---
Oil Hours	0	0	0	---
Oil Changed	Changed	N/A	N/A	---
Sample Status	NORMAL	ABNORMAL	NORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	11.2	11.1	11.2	---
Base Number (BN)	mg KOH/g	12.8	5.7	14.9	---
Oxidation (PA)	%	52	180	43	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	111	81	108	---
Sulfation (PA)	%	47	99	41	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	0.8	1.8	---
Silicon	ppm	14	71	7	---
Sodium	ppm	0	2	1	---
Potassium	ppm	9	2	1	---



WEAR METALS

Iron	ppm	18	13	7	---
Copper	ppm	6	392	1	---
Lead	ppm	0	4	<1	---
Tin	ppm	<1	1	<1	---
Aluminum	ppm	5	3	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	<1	33	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	<1	0	0	---
Manganese	ppm	0	2	<1	---
Vanadium	ppm	0	<1	<1	---



ADDITIVES

Calcium	ppm	5980	1354	4317	---
Magnesium	ppm	35	751	21	---
Zinc	ppm	1659	858	1243	---
Phosphorus	ppm	1492	720	1015	---
Barium	ppm	26	18	0	---
Boron	ppm	360	118	269	---

Depot: RECLAV
Unique No: 10872033
Signed: Don Baldrige
Report Date: 12 Feb 2024



GRAPHS

