

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934BHD 022282-934 - Diesel Engine

Sample No: LHMC91089

Oil Type: 15W40 LA



RECO EQUIPMENT INC.
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SAMPLE INFORMATION

Sample Number	LHMC91089	LHMC99443	---	---
Sample Date	16 Aug 2023	08 Nov 2019	---	---
Machine Hours	48591	40937	---	---
Oil Hours	0	317	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	12.8	14.3	---	---
Base Number (BN)	mg KOH/g	7.7	---	---	---
Oxidation (PA)	%	65	88	---	---



CONTAMINATION

Soot %	%	1	0.6	---	---
Nitration (PA)	%	67	90	---	---
Sulfation (PA)	%	57	66	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	13	7	---	---
Sodium	ppm	19	28	---	---
Potassium	ppm	24	7	---	---



WEAR METALS

Iron	ppm	54	54	---	---
Copper	ppm	13	5	---	---
Lead	ppm	5	6	---	---
Tin	ppm	2	0	---	---
Aluminum	ppm	2	2	---	---
Chromium	ppm	1	2	---	---
Molybdenum	ppm	13	43	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	<1	6	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	1	2	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	2115	2210	---	---
Magnesium	ppm	234	487	---	---
Zinc	ppm	1148	1205	---	---
Phosphorus	ppm	916	933	---	---
Barium	ppm	0	13	---	---
Boron	ppm	172	77	---	---

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: LEC0070
 Unique No: 10615393
 Signed: Wes Davis
 Report Date: 22 Aug 2023



GRAPHS

