

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R974CEW 032693-1084 - Diesel Engine

Sample No: LHMC120082

Oil Type: NOT GIVEN



#### SAMPLE INFORMATION

Sample Number	LHMC120082	LHMC112547	---	---
Sample Date	27 Dec 2023	13 Apr 2022	---	---
Machine Hours	14716	13212	---	---
Oil Hours	0	250	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

#### RECO EQUIPMENT INC.

41245 RECO RD  
 BELMONT, OH  
 US 43718  
 Contact: GABE PERLMAN  
 gperlman@recoequip.com  
 T:  
 F: (740)782-1020



#### OIL CONDITION

Visc @ 100°C	cSt	13.1	13.6	---	---
Base Number (BN)	mg KOH/g	8.4	11.2	---	---
Oxidation (PA)	%	51	53	---	---



#### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.4	---	---
Nitration (PA)	%	43	75	---	---
Sulfation (PA)	%	50	55	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	3	8	---	---
Sodium	ppm	1	19	---	---
Potassium	ppm	3	0	---	---

#### Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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.



#### WEAR METALS

Iron	ppm	7	17	---	---
Copper	ppm	4	14	---	---
Lead	ppm	1	2	---	---
Tin	ppm	<1	2	---	---
Aluminum	ppm	3	3	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	57	4	---	---
Nickel	ppm	<1	2	---	---
Titanium	ppm	2	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	1	---	---
Vanadium	ppm	<1	0	---	---



#### ADDITIVES

Calcium	ppm	1885	1898	---	---
Magnesium	ppm	429	535	---	---
Zinc	ppm	1411	811	---	---
Phosphorus	ppm	1117	746	---	---
Barium	ppm	1	2	---	---
Boron	ppm	8	128	---	---

Depot: LEC0071  
 Unique No: 10809946  
 Signed: Wes Davis  
 Report Date: 04 Jan 2024



### GRAPHS

