

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R924C 028643-1069 - Diesel Engine

Sample No: LH0281207

Oil Type: LUCAS 15W40



#### SAMPLE INFORMATION

Sample Number	LH0281207	LH0246918	LH0222018	---
Sample Date	15 Dec 2023	27 Jan 2023	03 Mar 2022	---
Machine Hours	18178	15740	13705	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	MARGINAL	NORMAL	---

#### ABC RECYCLING

8081 MEADOW AVE.

BURNABY, BC

CA V3N 2V9

Contact: John Anderson

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#### OIL CONDITION

Visc @ 100°C	cSt	13.7	13.7	13.1	---
Oxidation (PA)	%	98	106	19	---



#### CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.6	0.5	0	---
Nitration (PA)	%	91	89	26	---
Sulfation (PA)	%	76	82	39	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	9	10	7	---
Sodium	ppm	2	3	6	---
Potassium	ppm	1	2	9	---

#### 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 condition of the oil is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	45	34	20	---
Copper	ppm	4	5	4	---
Lead	ppm	14	25	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	3	4	2	---
Chromium	ppm	1	1	1	---
Molybdenum	ppm	95	102	1	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---



#### ADDITIVES

Calcium	ppm	1431	1531	152	---
Magnesium	ppm	741	767	16	---
Zinc	ppm	1199	1215	146	---
Phosphorus	ppm	1001	1078	1986	---
Barium	ppm	<1	<1	0	---
Boron	ppm	36	91	6	---

Depot: ABCBUR

Unique No: 5733257

Signed: Kevin Marson

Report Date: 16 Feb 2024



### GRAPHS

