

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(347307)] LIEBHERR R934 052025-1550 - Swing Drive

Sample No: LH0291202

Oil Type: GEAR OIL SAE 75W90



#### Sample Information

Sample Number	LH0291202	LH0270380	LH0239224	LH0227478
Sample Date	10 Jun 2024	27 Jul 2023	15 Nov 2022	09 Mar 2022
Machine Hours	3964	2892	1904	979
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

**MOFFATT SCRAP IRON & METAL INC.**  
 9620 GUELPH LINE  
 CAMPBELLVILLE, ON  
 CA L0P 1B0  
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#### Oil Condition

Visc @ 40°C	cSt	91.6	99.6	104	109



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	4	4	6
Sodium	ppm	1	1	<1	2
Potassium	ppm	<1	<1	1	1



#### Wear Metals

PQ		0	---	0	---
Iron	ppm	1033	599	1043	574
Copper	ppm	1	<1	<1	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	13	8	13	8
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	7	5	9	7
Vanadium	ppm	0	0	<1	<1



#### Additives

Calcium	ppm	7	13	14	10
Magnesium	ppm	1	4	1	2
Zinc	ppm	11	15	13	13
Phosphorus	ppm	680	1368	1328	1385
Barium	ppm	0	0	0	<1
Boron	ppm	46	207	184	235

#### Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Chromium and iron ppm levels are abnormal. Gear wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: MOFMOF  
 Unique No: 5798750  
 Signed: Kevin Marson  
 Report Date: 11 Jun 2024



### Graphs

