

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R934 025778-918 - Left Final Drive

Sample No: LH0204144

Oil Type: GEAR OIL LS 80W90



AMERICAN STATE EQUIPMENT CO.
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Sample Information

Sample Number	LH0204144	LH0190480	---	---
Sample Date	12 Apr 2024	09 Apr 2021	---	---
Machine Hours	4594	3853	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	NORMAL	SEVERE	---	---



Oil Condition

Visc @ 40°C	cSt	● 124	● 142	---	---
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Contamination

Water	%	NEG	NEG	---	---
Silicon	ppm	● 42	● 448	---	---
Sodium	ppm	● 2	● 14	---	---
Potassium	ppm	● 4	● 26	---	---



Wear Metals

Iron	ppm	● 161	● 1425	---	---
Copper	ppm	● 59	● 564	---	---
Lead	ppm	● 2	● 10	---	---
Tin	ppm	● 3	● 41	---	---
Aluminum	ppm	● 5	● 33	---	---
Chromium	ppm	● 4	● 33	---	---
Molybdenum	ppm	● 2	● 0	---	---
Nickel	ppm	● <1	● 6	---	---
Titanium	ppm	● <1	● 3	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	● 2	● 16	---	---
Vanadium	ppm	<1	<1	---	---



Additives

Calcium	ppm	● 135	● 17	---	---
Magnesium	ppm	● 19	● 3	---	---
Zinc	ppm	● 58	● 193	---	---
Phosphorus	ppm	● 907	● 919	---	---
Barium	ppm	● 0	● 2	---	---
Boron	ppm	● 57	● 62	---	---

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.

Depot: LEC0008
 Unique No: 10989268
 Signed: Wes Davis
 Report Date: 23 Apr 2024



Graphs

