

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 045480-1007 - Rear Differential

Sample No: LH0263946

Oil Type: GEAR OIL SAE 80W90



NORTHERN METAL RECYCLING
 2800 PACIFIC ST N
 MINNEAPOLIS, MN
 US 55411
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SAMPLE INFORMATION

Sample Number	LH0263946	LHMC142227	LHMC106358	LHMC106461
Sample Date	19 Dec 2023	03 May 2019	02 Jun 2017	14 Oct 2016
Machine Hours	31068	22895	17893	16574
Oil Hours	2000	2000	500	0
Oil Changed	Changed	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	120	329	278.8	276.2
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	2	6	4
Sodium	ppm	2	2	2	3
Potassium	ppm	0	<1	2	0



WEAR METALS

Iron	ppm	27	7	6	3
Copper	ppm	17	2	3	1
Lead	ppm	0	1	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	<1	0	1	0
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	2	<1	1	2
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	3	4
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	124	44	122	156
Magnesium	ppm	21	2	6	4
Zinc	ppm	79	18	63	72
Phosphorus	ppm	1311	950	858	906
Barium	ppm	0	0	<1	0
Boron	ppm	179	155	151	148

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

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: NORMINLH
 Unique No: 10844579
 Signed: Wes Davis
 Report Date: 23 Jan 2024

