

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 145111-1217 - Front Differential

Sample No: LH0285009

Oil Type: GEAR OIL SAE 90



RAM IRON AND METAL

60 Ashwarren Road
TORONTO, ON
CA M3J 1Z5
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SAMPLE INFORMATION

Sample Number	LH0285009	LH0266079	LH0261412	LH0261403
Sample Date	12 Feb 2024	20 Jun 2023	27 Apr 2023	27 Apr 2023
Machine Hours	2972	1188	558	558
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	91.5	109	168	168



CONTAMINATION

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



WEAR METALS

Iron	ppm	3	3	4	4
Copper	ppm	5	19	7	6
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	3	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	3	5	8	8
Magnesium	ppm	<1	1	<1	<1
Zinc	ppm	8	17	8	8
Phosphorus	ppm	701	1381	1425	1449
Barium	ppm	<1	14	239	240
Boron	ppm	5	299	50	51

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: RAMTOR
Unique No: 5724542
Signed: Wes Davis
Report Date: 14 Feb 2024



GRAPHS

