

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 145111-1217 - Front Differential

Sample No: LH0296535
 Oil Type: GEAR OIL SAE 90



RAM IRON AND METAL
 60 Ashwarren Road
 TORONTO, ON
 CA M3J 1Z5
 Contact: PETER RACCO
 PETER@RAMIRON.COM
 T: (416)630-4545
 F: (416)630-5258



Sample Information

Sample Number	LH0296535	LH0285009	LH0266079	LH0261412
Sample Date	07 Jul 2024	12 Feb 2024	20 Jun 2023	27 Apr 2023
Machine Hours	4008	2972	1188	558
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	90.6	91.5	109	168



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	4	4	4
Sodium	ppm	<1	<1	<1	3
Potassium	ppm	0	<1	<1	<1



Wear Metals

Iron	ppm	3	3	3	4
Copper	ppm	11	5	19	7
Lead	ppm	0	0	<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	0	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	<1	3
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	3	3	5	8
Magnesium	ppm	<1	<1	1	<1
Zinc	ppm	10	8	17	8
Phosphorus	ppm	695	701	1381	1425
Barium	ppm	1	<1	14	239
Boron	ppm	6	5	299	50

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: 5811948
 Signed: Wes Davis
 Report Date: 09 Jul 2024



Graphs

