

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 145111-1217 - Rear Differential

Sample No: LH0285008

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0285008	LH0247466	LH0261411	LH0261408
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	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RAM IRON AND METAL

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OIL CONDITION

Visc @ 40°C	cSt	94.9	114	176	169



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	7	4	2	4
Sodium	ppm	<1	1	4	3
Potassium	ppm	<1	1	<1	<1

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.



WEAR METALS

Iron	ppm	11	12	21	4
Copper	ppm	9	17	6	6
Lead	ppm	0	<1	0	0
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	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	3	6	8	8
Magnesium	ppm	<1	1	1	<1
Zinc	ppm	8	17	10	8
Phosphorus	ppm	793	1336	1376	1442
Barium	ppm	7	46	284	242
Boron	ppm	48	268	32	50

Depot: RAMTOR
Unique No: 5724539
Signed: Wes Davis
Report Date: 14 Feb 2024



GRAPHS

