# CONSTRUCTION EQUIPMENT

## LIEBHERR LH50M 138442 - Rear Differential

Sample No: LH0274626

Oil Type: GEAR OIL SAE 90

## **SAMPLE INFORMATION**

Sample Number	LH0274626	LH0251838	LH0242532	LH0193054
Sample Date	20 Aug 2023	23 Mar 2023	19 Oct 2022	03 Aug 2022
Machine Hours	4196	2454	1200	492
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	ABNORMAL
<b>OIL CONDITION</b>				
Visc @ 40°C cSt	0 105	98.0	0 108	0 140

CONT	AMINATI	ON			
Silicon	ppm	<b>0</b> 19	0 27	8	9
Sodium	ppm	<b>○</b> <1	01	2	2
Potassium	ppm	0	○ <1	0 1	01

Ä					
WEA	R METAL	.S			
PQ					0
Iron	ppm	0 12	◯ 35	92	0 241
Copper	ppm	0 20	25	27	20
Lead	ppm	<b>○</b> <1	○ <1	01	◯ <1
Tin	ppm	0	0	0	0
Aluminum	ppm	0 2	0 2	○ <1	○ <1
Chromium	ppm	0	0	◯ <1	01
Molybdenum	ppm	0 ()	0 ()	◯ <1	<1
Nickel	ppm	<b>○</b> <1	0	◯ <1	◯ <1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<b>○</b> <1	○ <1	02	3
Vanadium	ppm	0	0	0	0

0 **ADDITIVES** Calcium 0 14 ppm 0 43 0 40 31 04 02 Magnesium ppm 02 <1 0 26 Zinc 0 51 33 0 22 ppm 0 1368 Phosphorus ppm 0 1322 0 1350 1309 0 Barium 0 0 ppm <1 Boron 289 0 228 ppm 0 326





#### **CMI - COMBINED METAL INDUSTRIES**

505 GARY RAY DRIVE NORTH YORK, ON CA M9L 1P9 Contact: Greg Sacher gsacher@combinedmetal.com T: (416)642-7262 F:

### 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:	COMWES
Unique No:	5630308
Signed:	Wes Davis
Report Date:	21 Aug 2023

Contact/Location: Greg Sacher - COMWES





GRAPHS

 $\odot$ 

