

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 138442 - Front Differential

Sample No: LH0274622

Oil Type: GEAR OIL SAE 75W90



SAMPLE INFORMATION

Sample Number	LH0274622	LH0251839	LH0242531	LH0193055
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	N/A	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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:



OIL CONDITION

Visc @ 40°C	cSt	106	99.2	102	183
-------------	-----	-----	------	-----	-----



CONTAMINATION

Silicon	ppm	2	2	3	5
Sodium	ppm	<1	0	<1	3
Potassium	ppm	0	0	0	<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	2	2	2	6
Copper	ppm	23	16	15	12
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	<1	0	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	<1	0	0	0
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	17	11	15	4
Magnesium	ppm	14	3	2	<1
Zinc	ppm	36	20	12	9
Phosphorus	ppm	1332	1348	1322	1136
Barium	ppm	0	0	6	370
Boron	ppm	335	310	309	2

Depot: COMWES
 Unique No: 5630311
 Signed: Wes Davis
 Report Date: 21 Aug 2023



GRAPHS

