

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 137429 - Swing Drive

Sample No: LH0274499

Oil Type: GEAR OIL SAE 75W90



CMI - COMBINED METAL INDUSTRIES
 505 GARY RAY DRIVE
 NORTH YORK, ON
 CA M9L 1P9
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SAMPLE INFORMATION

Sample Number	LH0274499	LH0247023	LH0251872	LH0247244
Sample Date	20 Aug 2023	11 Jun 2023	23 Feb 2023	02 Dec 2022
Machine Hours	6359	5689	4360	3290
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	102	101	99.1	98.5
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CONTAMINATION

Silicon	ppm	2	2	1	3
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	<1	<1	0	<1



WEAR METALS

Iron	ppm	251	239	258	447
Copper	ppm	80	85	94	190
Lead	ppm	2	2	3	4
Tin	ppm	<1	<1	1	1
Aluminum	ppm	0	<1	<1	<1
Chromium	ppm	3	3	3	6
Molybdenum	ppm	<1	0	0	<1
Nickel	ppm	<1	<1	<1	2
Titanium	ppm	0	0	0	0
Silver	ppm	1	<1	0	0
Manganese	ppm	2	2	2	4
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	12	5	10	14
Magnesium	ppm	2	1	2	2
Zinc	ppm	10	9	10	10
Phosphorus	ppm	1332	1374	1360	1343
Barium	ppm	0	0	0	0
Boron	ppm	339	305	304	309

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: 5630293
 Signed: Wes Davis
 Report Date: 21 Aug 2023



GRAPHS

