

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 137429 - Swing Drive

Sample No: LH0284891

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	LH0284891	LH0274499	LH0247023	LH0251872
Sample Date	01 Feb 2024	20 Aug 2023	11 Jun 2023	23 Feb 2023
Machine Hours	8133	6359	5689	4360
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	101	102	101	99.1



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	1	2	2	1
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	<1	<1	<1	0



WEAR METALS

Iron	ppm	52	251	239	258
Copper	ppm	34	80	85	94
Lead	ppm	<1	2	2	3
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	<1	0	<1	<1
Chromium	ppm	<1	3	3	3
Molybdenum	ppm	0	<1	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	1	<1	0
Manganese	ppm	0	2	2	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	9	12	5	10
Magnesium	ppm	2	2	1	2
Zinc	ppm	10	10	9	10
Phosphorus	ppm	1247	1332	1374	1360
Barium	ppm	0	0	0	0
Boron	ppm	307	339	305	304

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: 5733512
 Signed: Wes Davis
 Report Date: 16 Feb 2024



GRAPHS

