

LIEBHERR

CONSTRUCTION EQUIPMENT



[(363344)] LIEBHERR LH40C 135581-1527 - Swing Drive

Sample No: LH0277661

Oil Type: LIEBHERR GEAR BASIC 90 LS



CANADA IRON AND METAL CO. LTD.
 3534 DUNDAS STREET WEST
 TORONTO, ON
 CA M6S 2S1
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SAMPLE INFORMATION

Sample Number	LH0277661	LH0265821	LH0256852	LH0242645
Sample Date	07 Dec 2023	27 Jun 2023	05 Apr 2023	05 Oct 2022
Machine Hours	4925	3831	3230	1988
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	100	104	95.6	100
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	1	1	<1
Sodium	ppm	2	<1	0	1
Potassium	ppm	0	0	0	0



WEAR METALS

Iron	ppm	237	40	58	70
Copper	ppm	19	12	18	21
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	1	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	12	6	9	9
Magnesium	ppm	2	1	2	<1
Zinc	ppm	12	10	13	10
Phosphorus	ppm	1192	1303	1358	1468
Barium	ppm	1	0	0	<1
Boron	ppm	315	307	312	285

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 75W90 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: CAN353TOR
 Unique No: 5695057
 Signed: Kevin Marson
 Report Date: 11 Dec 2023



GRAPHS

