

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 055418-1334 - Transmission (Manual)

Sample No: LH0270258

Oil Type: PETRO CANADA DURATRAN



#### SAMPLE INFORMATION

Sample Number	LH0270258	LH0274428	LH0256591	LH0247321
Sample Date	25 Sep 2023	15 Aug 2023	27 Mar 2023	08 Feb 2023
Machine Hours	12214	11526	10029	9404
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	N/A	Changed
Sample Status	ABNORMAL	NORMAL	ABNORMAL	ABNORMAL

**CGC INC**  
 55 THIRD LINE RD  
 HAGERSVILLE, ON  
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#### OIL CONDITION

Visc @ 40°C	cSt	94.7	43.5	37.3	35.6
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#### CONTAMINATION

Element	Unit	3	6	7	9
Silicon	ppm	3	6	7	9
Sodium	ppm	1	<1	<1	2
Potassium	ppm	<1	<1	3	<1



#### WEAR METALS

Element	Unit	66	15	9	31
Iron	ppm	66	15	9	31
Copper	ppm	13	<1	<1	<1
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	<1	1	1	2
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Element	Unit	15	2889	3948	3678
Calcium	ppm	15	2889	3948	3678
Magnesium	ppm	2	8	12	13
Zinc	ppm	18	1161	1540	1403
Phosphorus	ppm	2501	1276	1325	1190
Barium	ppm	<1	0	0	0
Boron	ppm	297	155	105	99

#### 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 fluid. Viscosity of sample indicates oil is within SAE 75W90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the fluid is acceptable for the time in service.

**Depot:** CGCHAG  
**Unique No:** 5646330  
**Signed:** Kevin Marson  
**Report Date:** 27 Sep 2023



### GRAPHS

