

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 053090-1334 - Transmission (Manual)

Sample No: LH0287067

Oil Type: PETRO CANADA DURATRAN SYNTHETIC



#### Sample Information

Sample Number	LH0287067	LH0261816	LH0230597	LH
Sample Date	16 Apr 2024	19 May 2023	05 Jul 2022	21 Jun 2021
Machine Hours	10149	8213	6238	3969
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	ABNORMAL	NORMAL

**Waterford Sand and Gravel Ltd.**

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CA N3T 5M1

Contact: Ed Lamb

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F:



#### Oil Condition

Visc @ 40°C	cSt	31.1	34.9	35.2	36.4
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#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	8	8	11
Sodium	ppm	2	2	7	8
Potassium	ppm	<1	<1	8	2



#### Wear Metals

Iron	ppm	44	21	23	27
Copper	ppm	<1	1	2	2
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	3	2	1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	<1	1	<1
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	2061	3534	3395	3557
Magnesium	ppm	15	10	16	14
Zinc	ppm	745	1362	1390	1512
Phosphorus	ppm	786	1219	1147	1301
Barium	ppm	0	0	0	0
Boron	ppm	134	98	93	104

#### 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. The fluid viscosity is lower than typical, possibly indicating the addition of lighter grade fluid. 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: WAT70BRA2

Unique No: 5762807

Signed: Kevin Marson

Report Date: 18 Apr 2024



### Graphs

