

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 058671-1334 - Diesel Engine

Sample No: LH

Oil Type: DIESEL ENGINE OIL SAE 30



#### SAMPLE INFORMATION

Sample Number	LH	LH0260116	LH0260106	LH0150833
Sample Date	08 Mar 2024	10 Aug 2023	07 Aug 2023	16 Dec 2022
Machine Hours	7837	6574	6000	5000
Oil Hours	0	574	0	0
Oil Changed	Changed	Not Changd	Changed	Changed
Sample Status	NORMAL	NORMAL	SEVERE	NORMAL

**Bird's Hill Gravel and Stone Ltd.**

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#### OIL CONDITION

Visc @ 100°C	cSt	12.0	15.1	14.2	13.6
Oxidation (PA)	%	72	63	121	76



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0.2	0
Nitration (PA)	%	73	55	125	78
Sulfation (PA)	%	55	58	80	61
Glycol	%	NEG	NEG	0.0	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	5	21	12
Sodium	ppm	4	2	3	2
Potassium	ppm	2	2	12	7

#### 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.



#### WEAR METALS

Iron	ppm	4	5	37	12
Copper	ppm	1	2	10	7
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	<1	2	<1
Aluminum	ppm	2	2	13	8
Chromium	ppm	<1	<1	11	4
Molybdenum	ppm	52	16	37	39
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	<1	<1	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	924	1673	1363	1431
Magnesium	ppm	1007	319	630	654
Zinc	ppm	1175	1070	1119	1156
Phosphorus	ppm	1018	955	938	1058
Barium	ppm	0	0	1	<1
Boron	ppm	41	98	15	21

Depot: BIRWIN

Unique No: 5746480

Signed: Wes Davis

Report Date: 12 Mar 2024



### GRAPHS

