

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 055862-1334 - Diesel Engine

Sample No: LH0266003

Oil Type: DIESEL ENGINE OIL SAE 40



SAMPLE INFORMATION

Sample Number	LH0266003	LH	LH0199594	LH
Sample Date	07 Aug 2023	23 Apr 2022	13 Sep 2021	03 Oct 2020
Machine Hours	8000	5000	3983	2100
Oil Hours	0	0	0	1100
Oil Changed	N/A	Not Changd	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Bird's Hill Gravel and Stone Ltd.

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OIL CONDITION

Visc @ 100°C	cSt	14.2	12.6	13.3	13.3
Oxidation (PA)	%	105	84	108	92



CONTAMINATION

Soot %	%	0.3	0.1	0.2	0.1
Nitration (PA)	%	107	88	100	81
Sulfation (PA)	%	73	66	75	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	10	7	8
Sodium	ppm	3	2	4	2
Potassium	ppm	2	2	3	1

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. All component wear rates are normal. The water content is negligible. 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	25	15	25	19
Copper	ppm	6	5	11	45
Lead	ppm	<1	1	2	4
Tin	ppm	<1	<1	1	1
Aluminum	ppm	2	2	2	1
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	48	58	40	53
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	<1	<1	<1	<1
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1368	1216	1327	1235
Magnesium	ppm	809	964	795	923
Zinc	ppm	1232	1234	1232	1245
Phosphorus	ppm	1030	1087	1023	971
Barium	ppm	<1	0	<1	4
Boron	ppm	14	6	32	14

Depot: BIRWIN

Unique No: 5619518

Signed: Kevin Marson

Report Date: 08 Aug 2023



GRAPHS

