

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 058872-1334 - Diesel Engine

Sample No: LH

Oil Type: DIESEL ENGINE OIL SAE 5W40



#### SAMPLE INFORMATION

Sample Number	LH	LH0250113	LH0242710	LH
Sample Date	16 Feb 2024	25 Apr 2023	22 Oct 2022	15 Dec 2021
Machine Hours	7925	6045	0	0
Oil Hours	0	0	0	1000
Oil Changed	Changed	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**Bird's Hill Gravel and Stone Ltd.**  
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#### OIL CONDITION

Visc @ 40°C	cSt	---	91.5	---	---
Visc @ 100°C	cSt	14.6	13.3	13.6	11.0
Viscosity Index (VI)	Scale	---	145	---	---
Oxidation (PA)	%	95	94	71	91

#### 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.



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.3	0	0
Nitration (PA)	%	97	103	80	87
Sulfation (PA)	%	70	71	58	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.7
Silicon	ppm	6	9	7	15
Sodium	ppm	2	3	2	3
Potassium	ppm	2	3	2	8



#### WEAR METALS

Iron	ppm	14	19	7	20
Copper	ppm	3	5	2	9
Lead	ppm	<1	<1	<1	2
Tin	ppm	<1	1	<1	1
Aluminum	ppm	2	4	2	5
Chromium	ppm	1	2	<1	1
Molybdenum	ppm	38	54	53	61
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	<1	<1	<1	<1
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1531	1304	1258	1155
Magnesium	ppm	638	916	883	1052
Zinc	ppm	1188	1250	1222	1260
Phosphorus	ppm	996	1067	1072	1043
Barium	ppm	0	0	0	4
Boron	ppm	35	4	5	3

Depot: BIRWIN  
 Unique No: 5734512  
 Signed: Wes Davis  
 Report Date: 22 Feb 2024



### GRAPHS

