

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(336347)] LIEBHERR LH30C126039-1526 - Diesel Engine

Sample No: LH0188342

Oil Type: 49 NORTH 15W40



#### SAMPLE INFORMATION

Sample Number	LH0188342	LH0188332	LH0188335	LH0188334
Sample Date	17 Aug 2023	30 Jun 2023	25 May 2023	31 Mar 2023
Machine Hours	500	5250	500	4753
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

**National Salvage Ltd.**  
206-33 Street N  
Lethbridge, AB  
CA T1H 3Z5  
Contact: Service Manager



#### OIL CONDITION

Visc @ 100°C	cSt	2.5	13.6	13.0	13.3
Oxidation (PA)	%	59	55	59	59

T:  
F:



#### CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	55	46	58	53
Sulfation (PA)	%	52	50	51	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	2.1	<1.0	<1.0	<1.0
Silicon	ppm	6	6	6	6
Sodium	ppm	1	1	<1	1
Potassium	ppm	2	0	<1	0

#### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	3	2	3	2
Copper	ppm	4	1	3	1
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	1	1	2	1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	57	57	59	56
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1097	1081	1093	1066
Magnesium	ppm	960	946	964	919
Zinc	ppm	1217	1184	1209	1156
Phosphorus	ppm	1089	1065	1093	1085
Barium	ppm	0	0	0	0
Boron	ppm	2	2	3	3

**Depot:** NATLET  
**Unique No:** 5644886  
**Signed:** Wes Davis  
**Report Date:** 21 Sep 2023

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### GRAPHS

