

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L556 053602-1484 - Diesel Engine

Sample No: LH0278951

Oil Type: PETRO CANADA 10W40



#### Sample Information

Sample Number	LH0278951	LH0281542	LH0215735	---
Sample Date	16 Jul 2024	11 Jan 2024	13 Oct 2023	---
Machine Hours	8759	7741	7226	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	SEVERE	NORMAL	NORMAL	---

THOMAS CAVANAGH CONSTRUCTION LTD  
RR # 2, 9094 CAVANAGH ROAD  
ASHTON, ON  
CA K0A 1B0  
Contact: Keith



#### Oil Condition

Visc @ 100°C	cSt	12.8	13.6	12.6	---
Oxidation (PA)	%	65	55	56	---

T: (613)257-4995  
F: (613)253-0071



#### Contamination

Water	%	NEG	NEG	NEG	---
Soot %	%	0	0	0	---
Nitration (PA)	%	66	49	50	---
Sulfation (PA)	%	52	50	51	---
Glycol	%	0.0	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	5	5	---
Sodium	ppm	1	<1	2	---
Potassium	ppm	<1	0	<1	---

#### Diagnosis

We advise that you monitor for an abnormal oil pressure drop and noise. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Copper ppm levels are severe. Lead ppm levels are noted. A sharp increase in the copper level is noted. Bearing wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



#### Wear Metals

Iron	ppm	7	2	2	---
Copper	ppm	445	<1	<1	---
Lead	ppm	13	<1	<1	---
Tin	ppm	0	<1	0	---
Aluminum	ppm	1	1	<1	---
Chromium	ppm	<1	0	0	---
Molybdenum	ppm	60	57	59	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	<1	0	<1	---
Manganese	ppm	<1	0	0	---
Vanadium	ppm	0	0	0	---



#### Additives

Calcium	ppm	1049	1062	1043	---
Magnesium	ppm	961	968	968	---
Zinc	ppm	1184	1165	1177	---
Phosphorus	ppm	1004	1003	1004	---
Barium	ppm	<1	0	<1	---
Boron	ppm	<1	1	1	---

Depot: CAVASH  
Unique No: 5813929  
Signed: Kevin Marson  
Report Date: 18 Jul 2024



### Graphs

