

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40C146602-1527 - Diesel Engine

Sample No: LH0266333

Oil Type: PETRO CANADA SUPREME 5W30



SAMPLE INFORMATION

Sample Number	LH0266333	LH0266327	LH0266326	---
Sample Date	22 Feb 2024	01 Nov 2023	10 Aug 2023	---
Machine Hours	1693	1016	530	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

CALGARY METALS (1985) LTD.

3415 OGDEN RD. SE.

CALGARY, AB

CA T2G 4N4

Contact: Steve Goodzeck

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OIL CONDITION

Visc @ 100°C	cSt	11.9	13.3	12.0	---
Oxidation (PA)	%	88	78	208	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0	0	0	---
Nitration (PA)	%	83	64	99	---
Sulfation (PA)	%	61	59	114	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	1.6	---
Silicon	ppm	9	6	10	---
Sodium	ppm	4	2	3	---
Potassium	ppm	<1	0	4	---

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	6	5	13	---
Copper	ppm	79	95	206	---
Lead	ppm	2	3	8	---
Tin	ppm	<1	<1	1	---
Aluminum	ppm	2	2	4	---
Chromium	ppm	<1	<1	2	---
Molybdenum	ppm	60	57	45	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	0	0	1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	876	1064	1349	---
Magnesium	ppm	1105	922	958	---
Zinc	ppm	1205	1126	859	---
Phosphorus	ppm	1001	907	762	---
Barium	ppm	<1	2	17	---
Boron	ppm	28	14	104	---

Depot: CAL341CAL

Unique No: 5735725

Signed: Wes Davis

Report Date: 28 Feb 2024



GRAPHS

