

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40C 146602-1527 - Diesel Engine

Sample No: LH0266327

Oil Type: PETRO CANADA SUPREME 5W30



SAMPLE INFORMATION

Sample Number	LH0266327	LH0266326	---	---
Sample Date	01 Nov 2023	10 Aug 2023	---	---
Machine Hours	1016	530	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

CALGARY METALS (1985) LTD.

3415 OGDEN RD. SE.

CALGARY, AB

CA T2G 4N4

Contact: Steve Goodzeck

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F:



OIL CONDITION

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



CONTAMINATION

Soot %	%	0	0	---	---
Nitration (PA)	%	64	99	---	---
Sulfation (PA)	%	59	114	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	1.6	---	---
Silicon	ppm	6	10	---	---
Sodium	ppm	2	3	---	---
Potassium	ppm	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. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	1064	1349	---	---
Magnesium	ppm	922	958	---	---
Zinc	ppm	1126	859	---	---
Phosphorus	ppm	907	762	---	---
Barium	ppm	2	17	---	---
Boron	ppm	14	104	---	---

Depot: CAL341CAL

Unique No: 5672379

Signed: Bill Quesnel

Report Date: 10 Nov 2023



GRAPHS

