

LIEBHERR

CONSTRUCTION EQUIPMENT



[MODERN] LIEBHERR L586 74609 - Diesel Engine

Sample No: LH0277029

Oil Type: PETRO CANADA SUPREME 5W30



SAMPLE INFORMATION

Sample Number	LH0277029	---	---	---
Sample Date	21 Oct 2023	---	---	---
Machine Hours	1117	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

LIEBHERR CANADA

10 LYNDS AVENUE
MONCTON, NB
CA E1H 3K2

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OIL CONDITION

Visc @ 100°C	cSt	12.5	---	---	---
Oxidation (PA)	%	194	---	---	---



CONTAMINATION

Soot %	%	0	---	---	---
Nitration (PA)	%	101	---	---	---
Sulfation (PA)	%	104	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	12	---	---	---
Sodium	ppm	3	---	---	---
Potassium	ppm	3	---	---	---



WEAR METALS

Iron	ppm	17	---	---	---
Copper	ppm	135	---	---	---
Lead	ppm	12	---	---	---
Tin	ppm	1	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	1	---	---	---
Molybdenum	ppm	41	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1414	---	---	---
Magnesium	ppm	820	---	---	---
Zinc	ppm	916	---	---	---
Phosphorus	ppm	758	---	---	---
Barium	ppm	21	---	---	---
Boron	ppm	54	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Copper ppm levels are abnormal. Bearing wear is indicated. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: LIEMON
Unique No: 5669050
Signed: Kevin Marson
Report Date: 26 Oct 2023



GRAPHS

