

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [MODERN] LIEBHERR L586 74609 - Diesel Engine

Sample No: LH0284809

Oil Type: PETRO CANADA SUPREME 5W30



#### SAMPLE INFORMATION

Sample Number	LH0284809	LH0277029	---	---
Sample Date	02 Mar 2024	21 Oct 2023	---	---
Machine Hours	11699	1117	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

#### LIEBHERR CANADA

10 LYNDS AVENUE  
 MONCTON, NB  
 CA E1H 3K2  
 Contact: Bryan Wood  
 bryan.wood@liebherr.com  
 T:  
 F: (506)854-2940



#### OIL CONDITION

Visc @ 100°C	cSt	11.6	12.5	---	---
Oxidation (PA)	%	100	194	---	---



#### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0	0	---	---
Nitration (PA)	%	83	101	---	---
Sulfation (PA)	%	66	104	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	12	---	---
Sodium	ppm	4	3	---	---
Potassium	ppm	1	3	---	---

#### 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	9	17	---	---
Copper	ppm	26	135	---	---
Lead	ppm	2	12	---	---
Tin	ppm	<1	1	---	---
Aluminum	ppm	2	3	---	---
Chromium	ppm	<1	1	---	---
Molybdenum	ppm	56	41	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	0	2	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

Calcium	ppm	909	1414	---	---
Magnesium	ppm	1073	820	---	---
Zinc	ppm	1143	916	---	---
Phosphorus	ppm	975	758	---	---
Barium	ppm	3	21	---	---
Boron	ppm	27	54	---	---

Depot: LIEMON  
 Unique No: 5747765  
 Signed: Kevin Marson  
 Report Date: 18 Mar 2024



### GRAPHS

