

LIEBHERR

CONSTRUCTION EQUIPMENT



115141 - Diesel Engine

Sample No: LH0186751

Oil Type: PETRO CANADA SUPREME 5W30



SAMPLE INFORMATION

Sample Number	LH0186751	---	---	---
Sample Date	06 Jul 2023	---	---	---
Machine Hours	6086	---	---	---
Oil Hours	250	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

LIEBHERR CANADA LTD.
 1015 SUTTON DRIVE
 BURLINGTON, ON
 CA L7L 5Z8
 Contact: Joseph Gillis
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	11.9	---	---	---
Oxidation (PA)	%	65	---	---	---



CONTAMINATION

Soot %	%	0	---	---	---
Nitration (PA)	%	69	---	---	---
Sulfation (PA)	%	51	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	7	---	---	---
Sodium	ppm	14	---	---	---
Potassium	ppm	<1	---	---	---



WEAR METALS

Iron	ppm	7	---	---	---
Copper	ppm	10	---	---	---
Lead	ppm	2	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	1	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	47	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1520	---	---	---
Magnesium	ppm	907	---	---	---
Zinc	ppm	1191	---	---	---
Phosphorus	ppm	1084	---	---	---
Barium	ppm	14	---	---	---
Boron	ppm	89	---	---	---

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: LIEMIS
 Unique No: 5606098
 Signed: Wes Davis
 Report Date: 11 Jul 2023



GRAPHS

