

LIEBHERR

CONSTRUCTION EQUIPMENT



115059 - Diesel Engine

Sample No: LH0225010

Oil Type: PETRO CANADA SUPREME 5W30



SAMPLE INFORMATION

Sample Number	LH0225010	LH0203744	---	---
Sample Date	02 Aug 2023	09 Sep 2021	---	---
Machine Hours	3172	1072	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

LIEBHERR CANADA LTD.

10374 267 ST.

ACHESON, AB

CA T7X 6A2

Contact: Rodney Budzak

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OIL CONDITION

Visc @ 100°C	cSt	11.7	11.4	---	---
Oxidation (PA)	%	89	220	---	---



CONTAMINATION

Soot %	%	0	0	---	---
Nitration (PA)	%	95	141	---	---
Sulfation (PA)	%	65	119	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	8	12	---	---
Sodium	ppm	4	6	---	---
Potassium	ppm	<1	5	---	---

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	8	27	---	---
Copper	ppm	3	34	---	---
Lead	ppm	<1	20	---	---
Tin	ppm	<1	2	---	---
Aluminum	ppm	1	2	---	---
Chromium	ppm	<1	1	---	---
Molybdenum	ppm	60	45	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	7	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	817	1407	---	---
Magnesium	ppm	1158	896	---	---
Zinc	ppm	1232	918	---	---
Phosphorus	ppm	1068	752	---	---
Barium	ppm	<1	70	---	---
Boron	ppm	23	33	---	---

Depot: LIESPR

Unique No: 5630418

Signed: Wes Davis

Report Date: 22 Aug 2023



GRAPHS

