

LIEBHERR

CONSTRUCTION EQUIPMENT



48664 - Diesel Engine

Sample No: LH0250540

Oil Type: PETRO CANADA 10W40



SAMPLE INFORMATION

Sample Number	LH0250540	---	---	---
Sample Date	15 Sep 2023	---	---	---
Machine Hours	2684	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

Liebherr Canada

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OIL CONDITION

Visc @ 100°C	cSt	13.6	---	---	---
Oxidation (PA)	%	61	---	---	---



CONTAMINATION

Soot %	%	0	---	---	---
Nitration (PA)	%	62	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	29	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	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	15	---	---	---
Copper	ppm	1	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	1	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	61	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1055	---	---	---
Magnesium	ppm	1018	---	---	---
Zinc	ppm	1219	---	---	---
Phosphorus	ppm	1054	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	<1	---	---	---

Depot: LIERIC
 Unique No: 5644911
 Signed: Wes Davis
 Report Date: 20 Sep 2023



GRAPHS

