

LIEBHERR

CONSTRUCTION EQUIPMENT



67082 - Diesel Engine

Sample No: LH0242057

Oil Type: DIESEL ENGINE OIL SAE 15W40



SAMPLE INFORMATION

Sample Number	LH0242057	---	---	---
Sample Date	03 Oct 2023	---	---	---
Machine Hours	13391	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

Liebherr Canada

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OIL CONDITION

Visc @ 100°C	cSt	13.6	---	---	---
Oxidation (PA)	%	55	---	---	---



CONTAMINATION

Soot %	%	0.3	---	---	---
Nitration (PA)	%	49	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	8	---	---	---
Sodium	ppm	4	---	---	---
Potassium	ppm	0	---	---	---

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	10	---	---	---
Copper	ppm	<1	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	65	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1260	---	---	---
Magnesium	ppm	974	---	---	---
Zinc	ppm	1261	---	---	---
Phosphorus	ppm	1059	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	3	---	---	---

Depot: LIERIC
 Unique No: 5658576
 Signed: Wes Davis
 Report Date: 17 Oct 2023



GRAPHS

