

LIEBHERR

CONSTRUCTION EQUIPMENT



NO UNIT 02614597 - Diesel Engine

Sample No: LH
 Oil Type: SAE 10W40



SAMPLE INFORMATION

Sample Number	LH	---	---	---
Sample Date	08 Feb 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

LIEBHERR CANADA LTD.
 1015 SUTTON DRIVE
 BURLINGTON, ON
 CA L7L 5Z8
 Contact: Joseph Rodgers
 joseph.rodgers@liebherr.com
 T:
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OIL CONDITION

Visc @ 100°C	cSt	13.6	---	---	---
Oxidation (PA)	%	63	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0	---	---	---
Nitration (PA)	%	57	---	---	---
Sulfation (PA)	%	55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	9	---	---	---
Sodium	ppm	<1	---	---	---
Potassium	ppm	2	---	---	---

Diagnosis

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. 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	5	---	---	---
Copper	ppm	31	---	---	---
Lead	ppm	1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	56	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1092	---	---	---
Magnesium	ppm	932	---	---	---
Zinc	ppm	1154	---	---	---
Phosphorus	ppm	984	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	3	---	---	---

Depot: LIEMIS
 Unique No: 5723692
 Signed: Kevin Marson
 Report Date: 12 Feb 2024



GRAPHS

