

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L538 52298 - Diesel Engine

Sample No: LH0276129

Oil Type: DIESEL ENGINE OIL SAE 40



SAMPLE INFORMATION

Sample Number	LH0276129	---	---	---
Sample Date	14 Sep 2023	---	---	---
Machine Hours	2567	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

LIEBHERR CANADA LTD.

1015 SUTTON DRIVE

BURLINGTON, ON

CA L7L 5Z8

Contact: Joseph Rodgers

joseph.rodgers@liebherr.com

T: (905)319-9222

F: (905)319-6622



OIL CONDITION

Visc @ 100°C	cSt	13.5	---	---	---
Oxidation (PA)	%	58	---	---	---



CONTAMINATION

Soot %	%	0.1	---	---	---
Nitration (PA)	%	59	---	---	---
Sulfation (PA)	%	51	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	3	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	<1	---	---	---

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

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	3	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	1	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	56	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1018	---	---	---
Magnesium	ppm	960	---	---	---
Zinc	ppm	1164	---	---	---
Phosphorus	ppm	1035	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	5	---	---	---

Depot: LIEMIS

Unique No: 5643752

Signed: Wes Davis

Report Date: 15 Sep 2023



GRAPHS

