

LIEBHERR

CONSTRUCTION EQUIPMENT



NO UNIT NO SIF - Diesel Engine

Sample No: LH

Oil Type: DIESEL ENGINE OIL SAE 40



SAMPLE INFORMATION

Sample Number	LH	---	---	---
Sample Date	26 Feb 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

Liebherr-Canada Ltd.

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 Fort McMurray, AB
 CA T9H 5N3
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OIL CONDITION

Visc @ 100°C	cSt	14.5	---	---	---
Oxidation (PA)	%	67	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	66	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	4	---	---	---
Sodium	ppm	1	---	---	---
Potassium	ppm	3	---	---	---

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. 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	12	---	---	---
Copper	ppm	2	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	1	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	63	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1162	---	---	---
Magnesium	ppm	1030	---	---	---
Zinc	ppm	1260	---	---	---
Phosphorus	ppm	1139	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	2	---	---	---

Depot: LIEFTM
 Unique No: 5538705
 Signed: Kevin Marson
 Report Date: 28 Feb 2023



GRAPHS

