

LIEBHERR

CONSTRUCTION EQUIPMENT



[[S20230907054358]] 976 - Diesel Engine

Sample No: LH06059094

Oil Type: DIESEL ENGINE OIL SAE 40



SAMPLE INFORMATION

Sample Number	LH06059094	---	---	---
Sample Date	11 Jan 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

HEAVY MACHINES INC.

3930 EAST RAINES RD
MEMPHIS, TN
US 38118
Contact: J. DAVIS
JDAVIS@HEAVY.LLC.COM
T:
F: (901)260-2245



OIL CONDITION

Visc @ 100°C	cSt	14.1	---	---	---
Base Number (BN)	mg KOH/g	7.7	---	---	---
Oxidation (PA)	%	61	---	---	---

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.3	---	---	---
Nitration (PA)	%	67	---	---	---
Sulfation (PA)	%	55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	10	---	---	---
Sodium	ppm	1	---	---	---
Potassium	ppm	2	---	---	---



WEAR METALS

Iron	ppm	11	---	---	---
Copper	ppm	33	---	---	---
Lead	ppm	1	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	41	---	---	---
Nickel	ppm	2	---	---	---
Titanium	ppm	24	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	1266	---	---	---
Magnesium	ppm	877	---	---	---
Zinc	ppm	1294	---	---	---
Phosphorus	ppm	979	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	14	---	---	---

Depot: LEC0051
Unique No: 10830476
Signed: Wes Davis
Report Date: 12 Jan 2024



GRAPHS

