

LIEBHERR

CONSTRUCTION EQUIPMENT



FORD 49063 - Diesel Engine

Sample No: LHMC116221

Oil Type: AMSOIL PREMIUM 5W40 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LHMC116221	---	---	---
Sample Date	30 Dec 2022	---	---	---
Machine Hours	246110	---	---	---
Oil Hours	6000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

DAVID MAITLAND

21482 MT PONY RD

CULPEPER, VA

US 22701

Contact: DAVID MAITLAND

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T:

F:



OIL CONDITION

Visc @ 100°C	cSt	11.0	---	---	---
Base Number (BN)	mg KOH/g	6.1	---	---	---
Oxidation (PA)	%	53	---	---	---

Diagnosis

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	65	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	5.2	---	---	---
Silicon	ppm	28	---	---	---
Sodium	ppm	4	---	---	---
Potassium	ppm	4	---	---	---



WEAR METALS

Iron	ppm	20	---	---	---
Copper	ppm	2	---	---	---
Lead	ppm	2	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	1	---	---	---
Molybdenum	ppm	2	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	2142	---	---	---
Magnesium	ppm	36	---	---	---
Zinc	ppm	1016	---	---	---
Phosphorus	ppm	860	---	---	---
Barium	ppm	1	---	---	---
Boron	ppm	30	---	---	---

Depot: DAVCUL

Unique No: 10310808

Signed: Don Baldrige

Report Date: 30 Jan 2023



GRAPHS

