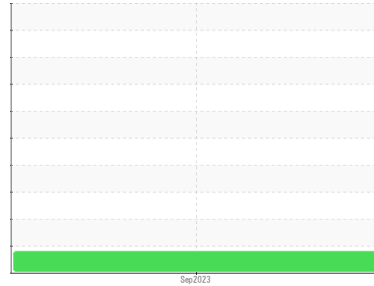




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
1540 (S/N 4560)

Component
Diesel Engine

Fluid
NAPA Motor Oil 15W40 (--- GAL)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

▲ Contamination

Fuel content negligible. Moderate concentration of visible dirt/debris present in the oil.

▲ Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0757410	---	---
Sample Date	Client Info	27 Sep 2023	---	---
Machine Age	hrs	Client Info	420	---
Oil Age	hrs	Client Info	20	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	3	---
Chromium	ppm	ASTM D5185m >20	<1	---
Nickel	ppm	ASTM D5185m >4	<1	---
Titanium	ppm	ASTM D5185m	<1	---
Silver	ppm	ASTM D5185m >3	0	---
Aluminum	ppm	ASTM D5185m >20	11	---
Lead	ppm	ASTM D5185m >40	<1	---
Copper	ppm	ASTM D5185m >330	1	---
Tin	ppm	ASTM D5185m >15	<1	---
Vanadium	ppm	ASTM D5185m	<1	---
Cadmium	ppm	ASTM D5185m	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	146	---
Barium	ppm	ASTM D5185m	0	---
Molybdenum	ppm	ASTM D5185m	74	---
Manganese	ppm	ASTM D5185m	0	---
Magnesium	ppm	ASTM D5185m	458	---
Calcium	ppm	ASTM D5185m	952	---
Phosphorus	ppm	ASTM D5185m	606	---
Zinc	ppm	ASTM D5185m	730	---
Sulfur	ppm	ASTM D5185m	3120	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	11	---
Sodium	ppm	ASTM D5185m	4	---
Potassium	ppm	ASTM D5185m >20	1	---
Fuel	%	ASTM D3524 >5	0.9	---

INFRA-RED

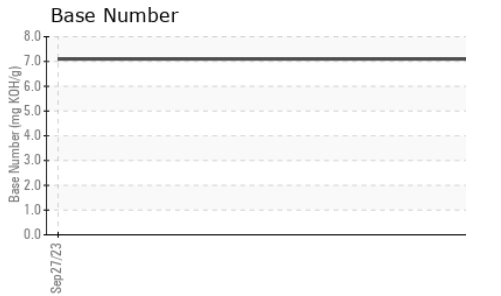
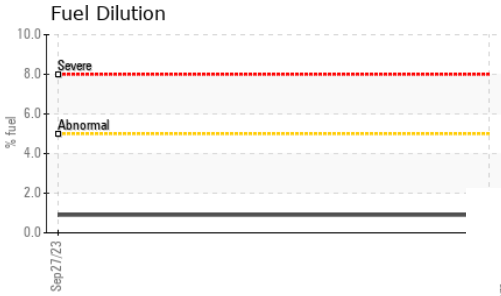
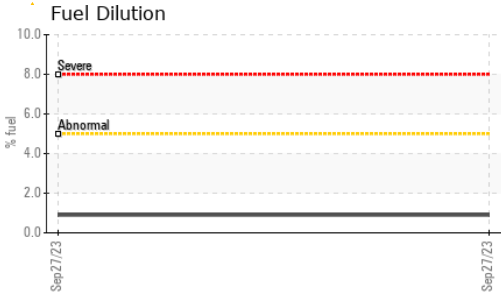
method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0	---
Nitration	Abs/cm	*ASTM D7624 >20	4.7	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	13.6	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	6.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	7.10	---



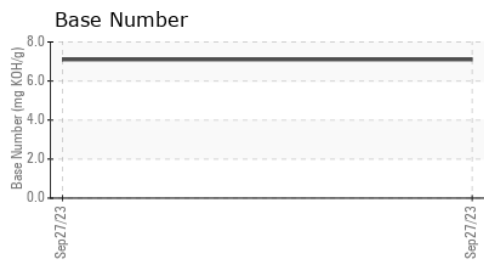
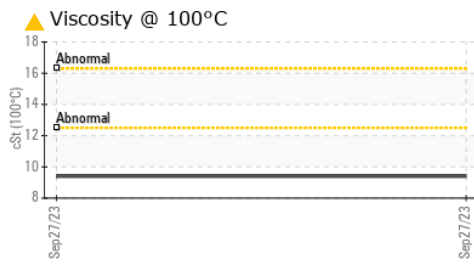
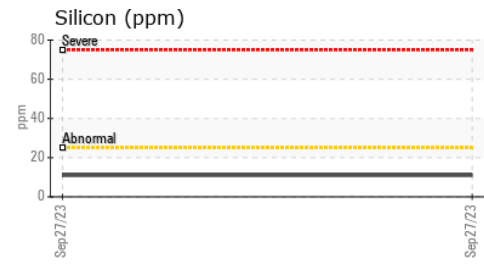
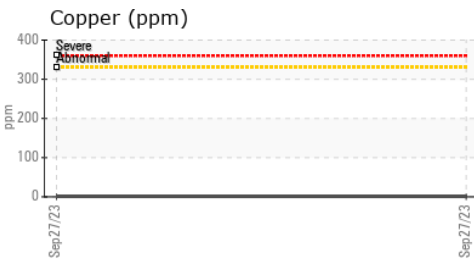
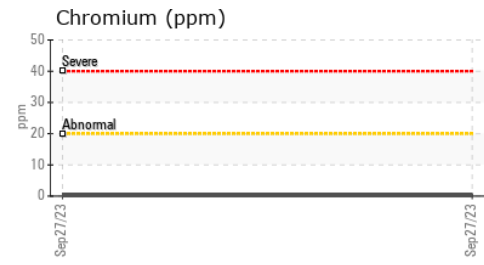
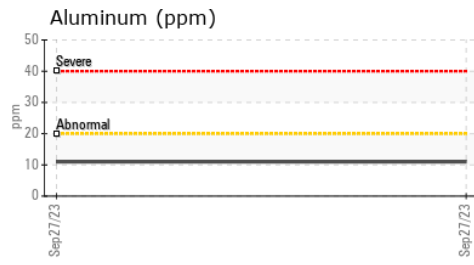
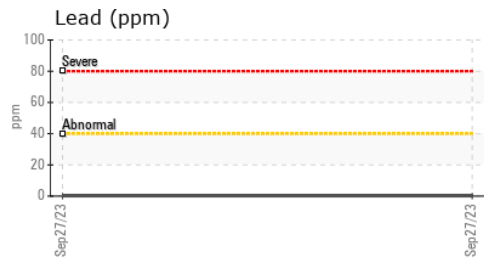
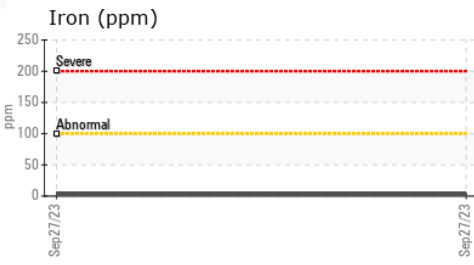
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	▲ 9.4	---	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0757410 **Received** : 13 Oct 2023
Lab Number : 05979097 **Diagnosed** : 18 Oct 2023
Unique Number : 10696392 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

NEO GENERATOR AND ENGINE, LLC
 10225 PORTLAND AVE SW
 BEACH CITY, OH
 US 44608
 Contact: BILL HOOD
 BHood@neogenservice.com
 T: (330)284-8390
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)