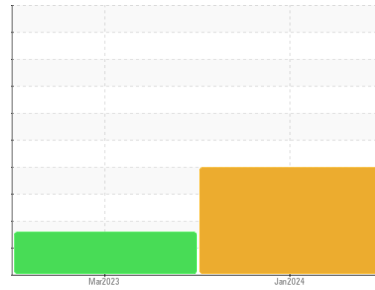




FUEL REPORT

Sample Rating Trend



WEAR



Machine Id
C-6 BPD
 Component
Diesel Fuel
 Fluid
DIESEL FUEL No. 2 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you filter this fluid before use. All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

Corrosion

All metal levels are normal indicating no corrosion in the system.

Contaminants

There is a high amount of particulates present in the fuel. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible.

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0882489	WC0795894	---
Sample Date	Client Info			22 Jan 2024	16 Mar 2023	---
Machine Age	hrs	Client Info		0	0	---
Sample Status				ABNORMAL	ABNORMAL	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		---	0.847	---
Fuel Color	text	*Visual Screen		Yellow	Yellow	---
ASTM Color	scalar	*ASTM D1500		L3.5	L2.0	---
Visc @ 40°C	cSt	ASTM D445	4.1	2.63	2.67	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		59	54	---
Cloud Point	°C	ASTM D5771		-13	-12	---
Pour Point	°C	ASTM D5950		-38	-36	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0	0	---
Sulfur (UVF)	ppm	ASTM D5453		10	24	---

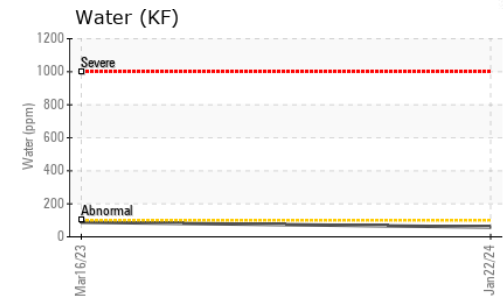
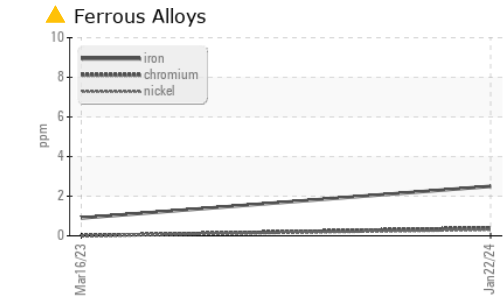
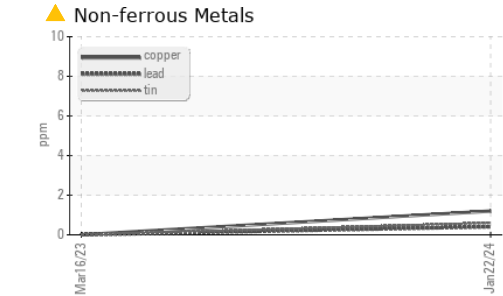
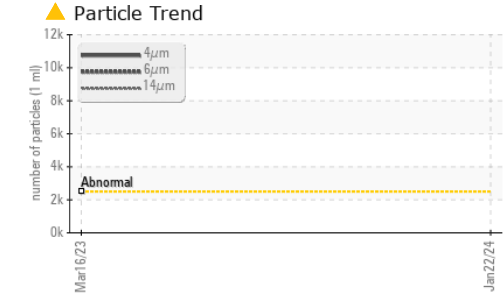
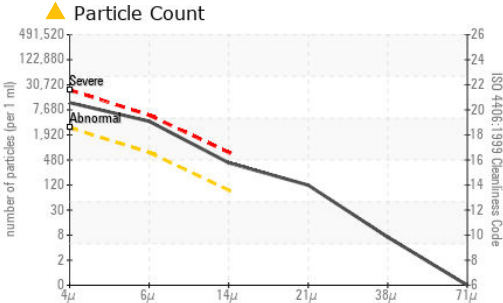
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		169	146	---
5% Distillation Point	°C	ASTM D86		190	186	---
10% Distill Point	°C	ASTM D86		201	197	---
15% Distillation Point	°C	ASTM D86		210	207	---
20% Distill Point	°C	ASTM D86		219	215	---
30% Distill Point	°C	ASTM D86		235	232	---
40% Distill Point	°C	ASTM D86		250	247	---
50% Distill Point	°C	ASTM D86		265	263	---
60% Distill Point	°C	ASTM D86		280	277	---
70% Distill Point	°C	ASTM D86		294	293	---
80% Distill Point	°C	ASTM D86		310	310	---
85% Distillation Point	°C	ASTM D86		321	319	---
90% Distill Point	°C	ASTM D86		331	330	---
95% Distillation Point	°C	ASTM D86		345	350	---
Final Boiling Point	°C	ASTM D86		361	354	---
Distillation Residue	%	ASTM D86		---	1.4	---
Distillation Loss	%	ASTM D86		---	0.8	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		35	35.6	---
Cetane Index		ASTM D4737	<40.0	46	46.0	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1	0	---
Sodium	ppm	ASTM D5185m	<0.1	0	0	---
Potassium	ppm	ASTM D5185m	<0.1	<1	0	---
Water	%	ASTM D6304	<0.05	0.005	0.008	---
ppm Water	ppm	ASTM D6304	<500	59	88.5	---
% Gasoline	%	*In-House	<0.50	0.0	0.0	---
% Biodiesel	%	*In-House	<20.0	1.7	1.6	---



FUEL REPORT

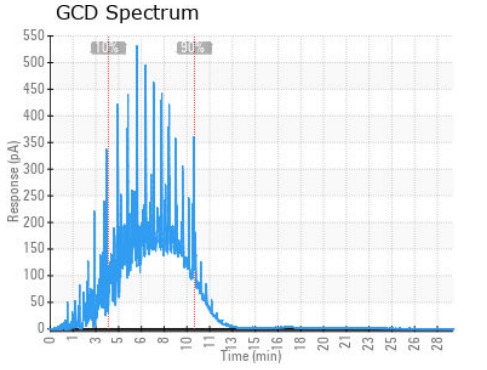
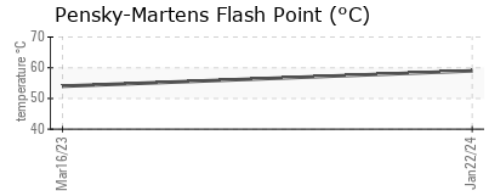
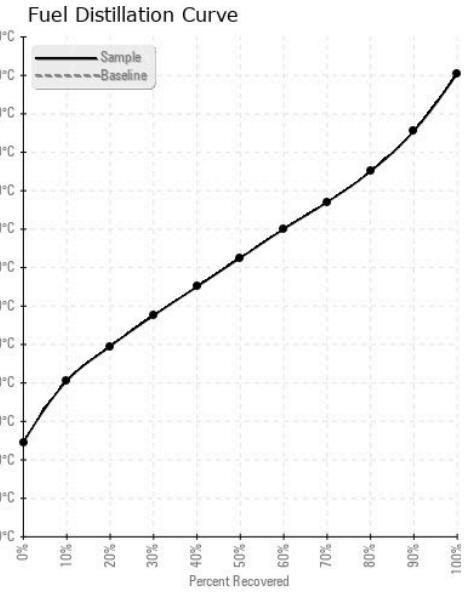


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 9920	---	---
Particles >6µm	ASTM D7647	>640	▲ 3568	---	---
Particles >14µm	ASTM D7647	>80	▲ 361	---	---
Particles >21µm	ASTM D7647	>20	▲ 105	---	---
Particles >38µm	ASTM D7647	>4	▲ 6	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 20/19/16	---	---

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m <0.1	2	6	---
Nickel	ppm	ASTM D5185m <0.1	<1	0	---
Lead	ppm	ASTM D5185m <0.1	<1	0	---
Vanadium	ppm	ASTM D5185m <0.1	<1	0	---
Iron	ppm	ASTM D5185m <0.1	▲ 2	<1	---
Calcium	ppm	ASTM D5185m <0.1	3	0	---
Magnesium	ppm	ASTM D5185m <0.1	<1	2	---
Phosphorus	ppm	ASTM D5185m <0.1	0	2	---
Zinc	ppm	ASTM D5185m <0.1	0	0	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0882489
Lab Number : 06124471
Unique Number : 10938622
Test Package : FUEL (Additional Tests: CldPt, Color-ASTM, Fuel, GC-PercFuel, PourPt, PrtCont, RSC)

NEW ENGLAND GENERATOR
 18 COLUMBIA RD
 PEMBROKE, MA
 US 02359
 Contact: SCOTT MATTHEWS
 scott@negenenerator.com

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)