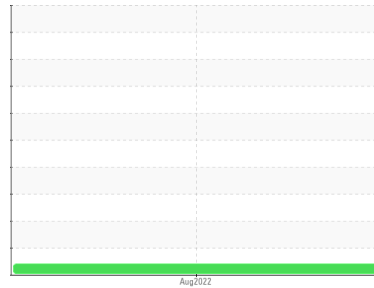




FUEL REPORT

Sample Rating Trend



OFF SPEC



Machine Id
KIOTI CK2618H XL9500140

Component
Diesel Fuel
Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

▲ Recommendation

Winterized fuel? All other 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 no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible. There is no indication of any contamination in the fuel.

▲ Fuel Condition

The flash point is lower than normal. 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		KT0000175	---	---
Sample Date		Client Info		16 Aug 2022	---	---
Machine Age	hrs	Client Info		499	---	---
Sample Status				ATTENTION	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.830	---	---
Fuel Color	text	*Visual Screen		Yellow	---	---
ASTM Color	scalar	*ASTM D1500		L1.5	---	---
Visc @ 40°C	cSt	ASTM D445		1.92	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		▲ 45	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0	---	---
Sulfur (UVF)	ppm	ASTM D5453		9	---	---

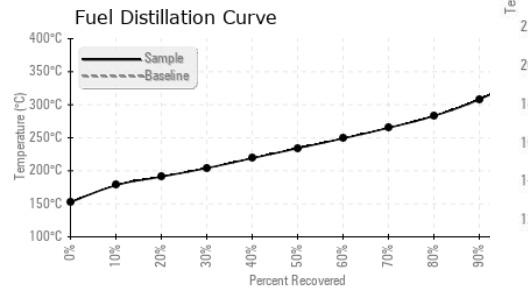
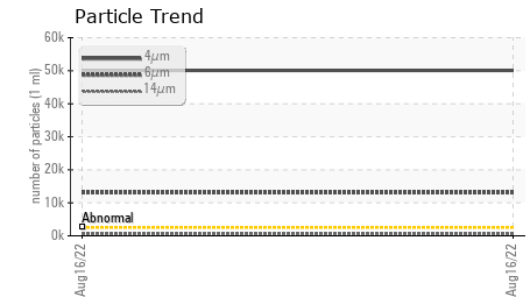
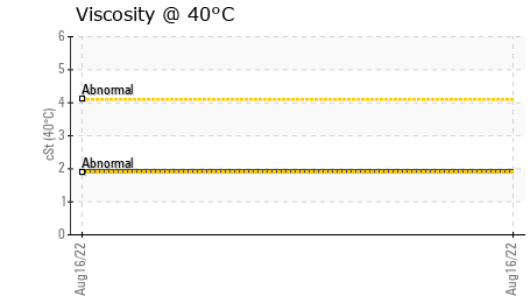
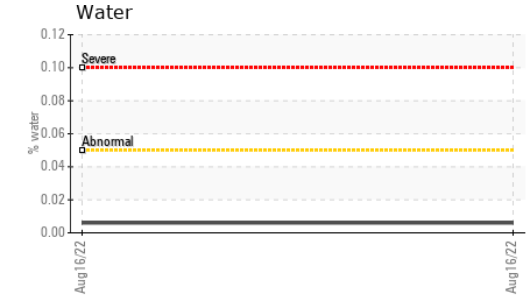
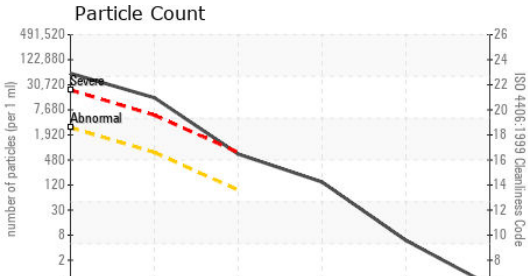
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		152	---	---
5% Distillation Point	°C	ASTM D86		171	---	---
10% Distill Point	°C	ASTM D86		178	---	---
15% Distillation Point	°C	ASTM D86		184	---	---
20% Distill Point	°C	ASTM D86		191	---	---
30% Distill Point	°C	ASTM D86		204	---	---
40% Distill Point	°C	ASTM D86		219	---	---
50% Distill Point	°C	ASTM D86		234	---	---
60% Distill Point	°C	ASTM D86		249	---	---
70% Distill Point	°C	ASTM D86		265	---	---
80% Distill Point	°C	ASTM D86		283	---	---
85% Distillation Point	°C	ASTM D86		295	---	---
90% Distill Point	°C	ASTM D86		308	---	---
95% Distillation Point	°C	ASTM D86		330	---	---
Final Boiling Point	°C	ASTM D86		341	---	---
Distillation Residue	%	ASTM D86		1.4	---	---
Distillation Loss	%	ASTM D86		0.6	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		39.0	---	---
Cetane Index		ASTM D4737	<40.0	45.6	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	---	---
Sodium	ppm	ASTM D5185m	<0.1	0	---	---
Potassium	ppm	ASTM D5185m	<0.1	0	---	---
Water	%	ASTM D6304	<0.05	0.006	---	---
ppm Water	ppm	ASTM D6304	<500	62.1	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	0.0	---	---



FUEL REPORT

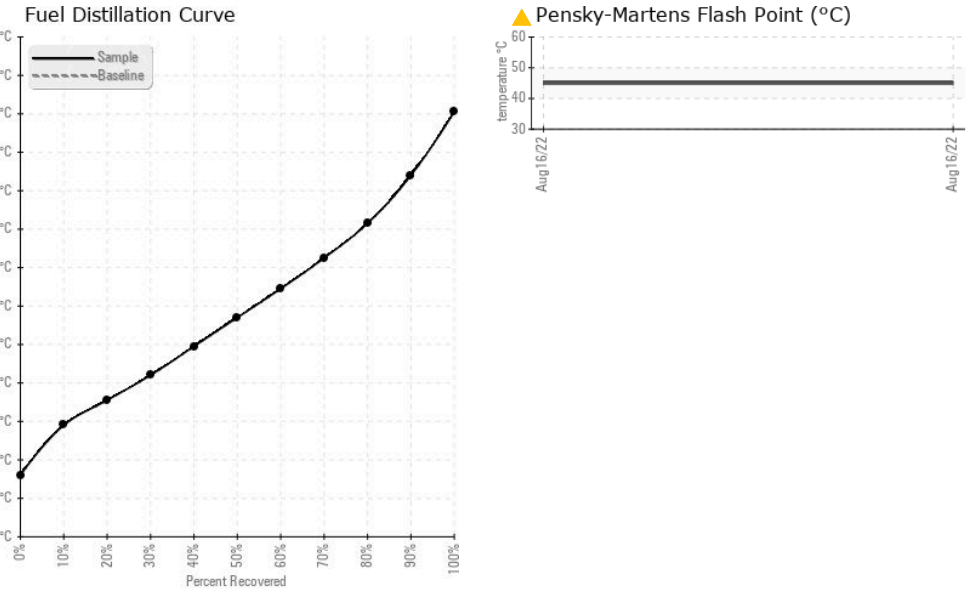


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	50079	---	---
Particles >6µm	ASTM D7647	>640	13073	---	---
Particles >14µm	ASTM D7647	>80	584	---	---
Particles >21µm	ASTM D7647	>20	125	---	---
Particles >38µm	ASTM D7647	>4	5	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	23/21/16	---	---

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m <0.1	<1	---	---
Nickel	ppm	ASTM D5185m <0.1	0	---	---
Lead	ppm	ASTM D5185m <0.1	0	---	---
Vanadium	ppm	ASTM D5185m <0.1	0	---	---
Iron	ppm	ASTM D5185m <0.1	0	---	---
Calcium	ppm	ASTM D5185m <0.1	0	---	---
Magnesium	ppm	ASTM D5185m <0.1	0	---	---
Phosphorus	ppm	ASTM D5185m <0.1	0	---	---
Zinc	ppm	ASTM D5185m <0.1	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. : KT0000175 **Received** : 22 Aug 2022
Lab Number : **05623635** **Diagnosed** : 27 Aug 2022
Unique Number : 10103142 **Diagnostician** : Doug Bogart
Test Package : DF-2 (Additional Tests: Screen)

NORTHEAST FARM SERVICES
 4501 ROUTE 5
 IRASBURG, VT
 US 05845
 Contact: P COUTURE
 pcouture@nefsvt.com
 T: (802)754-8863
 F:

Certificate L2367
 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)