



FUEL REPORT

Sample Rating Trend

NORMAL



Machine Id
GOOGLE-LNR-B-1-K
 Component
Diesel Fuel
 Fluid
DIESEL FUEL No. 2 (--- GAL)



DIAGNOSIS

Recommendation

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

The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel. The amount and size of particulates present in the system are acceptable.

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		WC0862205	---	---
Sample Date	Client Info		05 Oct 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Sample Status			NORMAL	---	---

PHYSICAL PROPERTIES

	method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298		0.844	---	---
Fuel Color	text	*Visual Screen	Red	---	---
ASTM Color	scalar	*ASTM D1500	L4.5	---	---
Visc @ 40°C	cSt	ASTM D445 4.1	2.49	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	61	---	---

SULFUR CONTENT

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

DISTILLATION

	method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	168	---	---
5% Distillation Point	°C	ASTM D86	193	---	---
10% Distill Point	°C	ASTM D86	203	---	---
15% Distillation Point	°C	ASTM D86	211	---	---
20% Distill Point	°C	ASTM D86	219	---	---
30% Distill Point	°C	ASTM D86	234	---	---
40% Distill Point	°C	ASTM D86	248	---	---
50% Distill Point	°C	ASTM D86	261	---	---
60% Distill Point	°C	ASTM D86	275	---	---
70% Distill Point	°C	ASTM D86	288	---	---
80% Distill Point	°C	ASTM D86	304	---	---
85% Distillation Point	°C	ASTM D86	313	---	---
90% Distill Point	°C	ASTM D86	324	---	---
95% Distillation Point	°C	ASTM D86	341	---	---
Final Boiling Point	°C	ASTM D86	348	---	---
Distillation Residue	%	ASTM D86	1.4	---	---
Distillation Loss	%	ASTM D86	0.7	---	---

IGNITION QUALITY

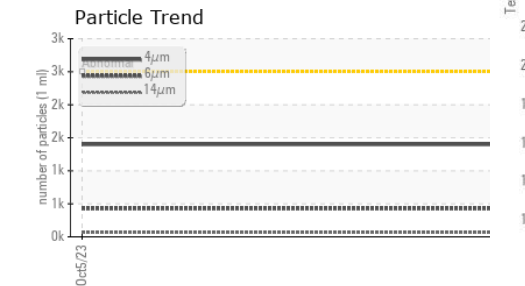
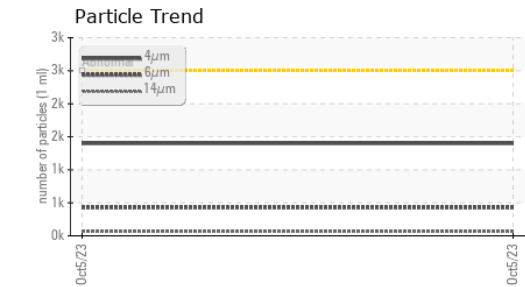
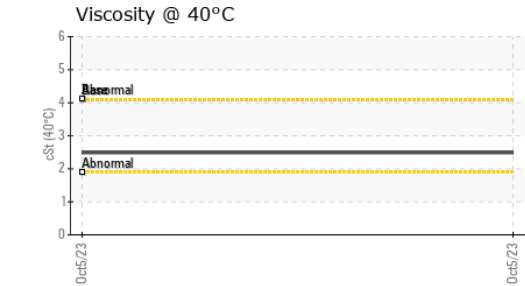
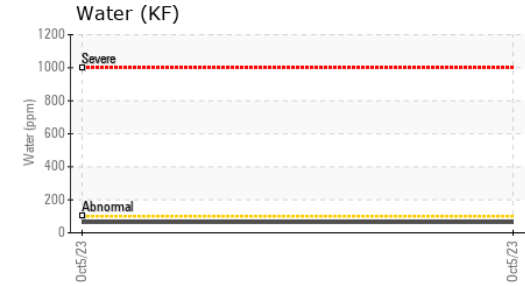
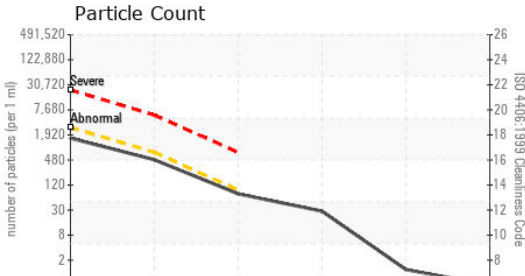
	method	limit/base	current	history1	history2
API Gravity	ASTM D7777		36.2	---	---
Cetane Index	ASTM D4737	<40.0	47.3	---	---

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	<1	---	---
Water	%	ASTM D6304 <0.05	0.006	---	---
ppm Water	ppm	ASTM D6304 <500	64.1	---	---
% Gasoline	%	*In-House <0.50	0.0	---	---
% Biodiesel	%	*In-House <20.0	0.0	---	---



FUEL REPORT

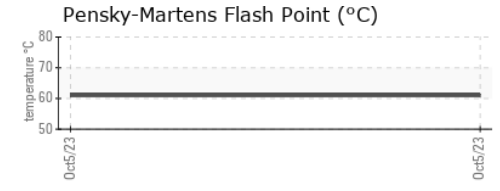
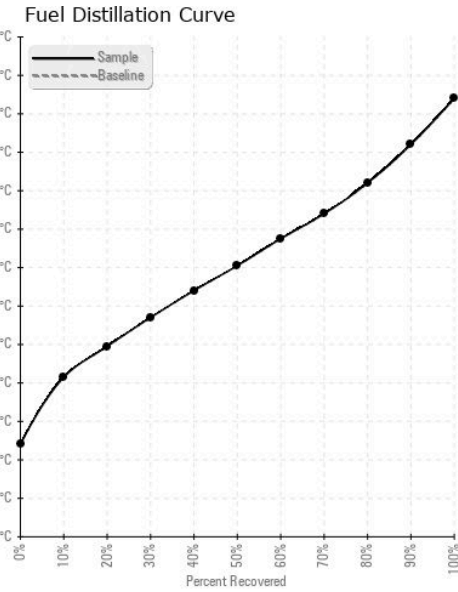


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	1399	---	---
Particles >6µm	ASTM D7647	>640	428	---	---
Particles >14µm	ASTM D7647	>80	65	---	---
Particles >21µm	ASTM D7647	>20	25	---	---
Particles >38µm	ASTM D7647	>4	1	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	18/16/13	---	---

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m <0.1	2	---	---
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	<1	---	---
Magnesium	ppm	ASTM D5185m <0.1	<1	---	---
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. : WC0862205 **Received** : 17 Oct 2023
Lab Number : **05981559** **Diagnosed** : 25 Oct 2023
Unique Number : 10698854 **Diagnostician** : Doug Bogart
Test Package : DF-2 (Additional Tests: Screen)

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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)