



FUEL REPORT

Sample Rating Trend

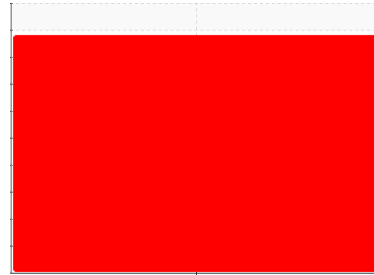
WATER



Machine Id
20000 GAL UST TANK 2 - FIRSTHEALTH MOORE REGIONAL

Component
Diesel Fuel

Fluid
NOT GIVEN (20000 GAL)



DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We advise that you inspect for the source(s) of rust.

Corrosion

Moderate concentration of visible metal present as rust.

Contaminants

Excessive free water present. Moderate concentration of visible dirt/debris present in the fuel. There is no bacteria or fungus (yeast and/or mold) present in the sample.

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		WC05693071	---	---
Sample Date	Client Info		11 Nov 2022	---	---
Machine Age	hrs	Client Info	0	---	---
Sample Status			SEVERE	---	---

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		5.0	---	---
Visc @ 40°C	cSt ASTM D445		2.56	---	---
Pensky-Martens Flash Point	°C *PMCC Calculated		59	---	---

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	141	---	---
5% Distillation Point	°C	ASTM D86	192	---	---
10% Distill Point	°C	ASTM D86	202	---	---
15% Distillation Point	°C	ASTM D86	212	---	---
20% Distill Point	°C	ASTM D86	220	---	---
30% Distill Point	°C	ASTM D86	235	---	---
40% Distill Point	°C	ASTM D86	250	---	---
50% Distill Point	°C	ASTM D86	264	---	---
60% Distill Point	°C	ASTM D86	279	---	---
70% Distill Point	°C	ASTM D86	294	---	---
80% Distill Point	°C	ASTM D86	311	---	---
85% Distillation Point	°C	ASTM D86	320	---	---
90% Distill Point	°C	ASTM D86	330	---	---
95% Distillation Point	°C	ASTM D86	345	---	---
Final Boiling Point	°C	ASTM D86	354	---	---
Distillation Residue	%	ASTM D86	1.4	---	---
Distillation Loss	%	ASTM D86	0.7	---	---

IGNITION QUALITY

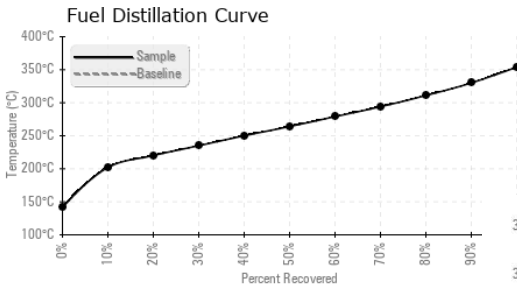
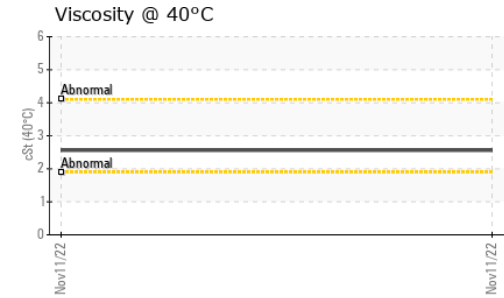
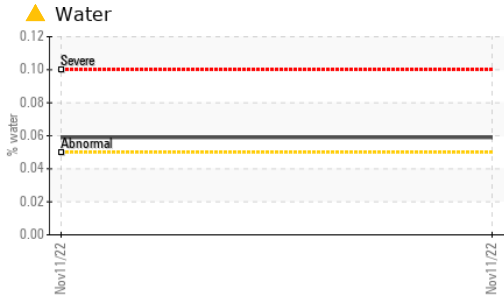
	method	limit/base	current	history1	history2
API Gravity	ASTM D7777		36.2	---	---
Cetane Index	ASTM D4737	<40.0	47.8	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1	---
Sodium	ppm	ASTM D5185m	<0.1	0	---
Potassium	ppm	ASTM D5185m	<0.1	0	---
Water	%	ASTM D6304	<0.05	▲ 0.059	---
ppm Water	ppm	ASTM D6304	<500	▲ 594.4	---
% Gasoline	%	*In-House	<0.50	0.0	---
% Biodiesel	%	*In-House	<20.0	3.3	---



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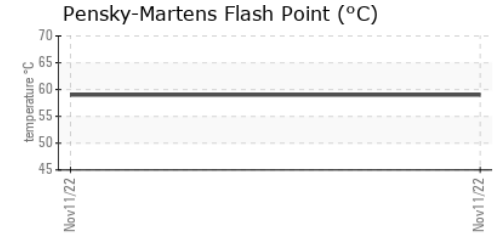
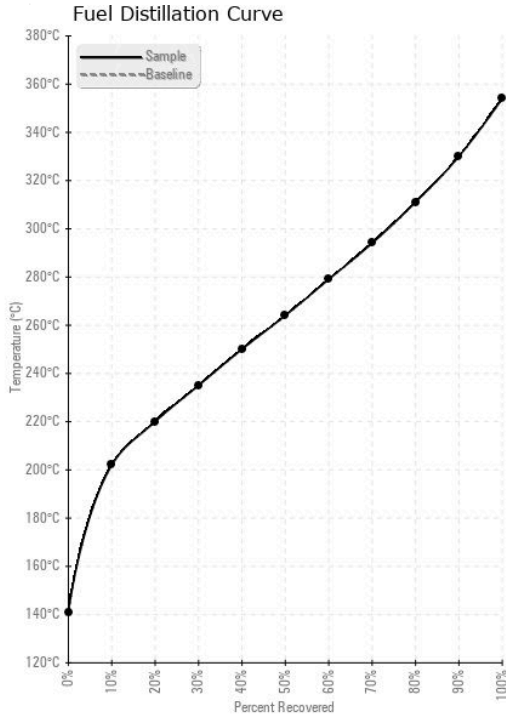
MICROBIAL	method	limit/base	current	history1	history2
Bacteria	CFU/ml WC-Method	≥100000	0	---	---
Yeast	CFU/ml WC-Method	≥100000	0	---	---
Mold	Colonies WC-Method	MODER	---	---	---

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm ASTM D5185m	<0.1	0	---	---
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	1	---	---
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



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC05693071 **Received** : 14 Nov 2022
Lab Number : 05693071 **Diagnosed** : 21 Nov 2022
Unique Number : 10217644 **Diagnostician** : Doug Bogart
Test Package : DF-2 (Additional Tests: Bacteria, Screen)

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 GOLDSTON, NC
 US 27252
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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)