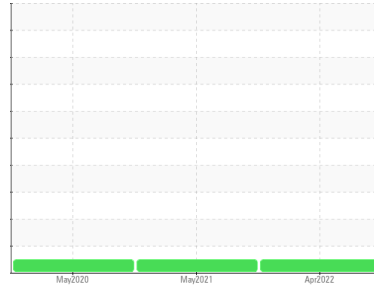




FUEL REPORT

Sample Rating Trend

NORMAL



Machine Id
LAWNWOOD CVICU

Component
Diesel Fuel
Fluid
OFF-ROAD (950 GAL)

DIAGNOSIS

Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel.

Corrosion

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

Contaminants

The water content is negligible. There is no Bacteria, Yeast and/or Fungus indicated in the sample. There is no indication of any contamination in the fuel.

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WCDF04634	WCDF02778	WCDF01621
Sample Date	Client Info			28 Apr 2022	19 May 2021	26 May 2020
Machine Age	mls	Client Info		0	0	0
Sample Status				NORMAL	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.847	0.847	0.848
Fuel Color	text	*Visual Screen		Red	Red	Red
ASTM Color	scalar	*ASTM D1500		L5.5	L5.0	L5.5
Visc @ 40°C	cSt	ASTM D445		2.69	2.66	2.75
Pensky-Martens Flash Point	°C	*PMCC Calculated		74	73	70
Cloud Point	°C	ASTM D5771		-11	-12	-12

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		471	606	745
Sulfur (UVF)	ppm	ASTM D5453		524	511	566

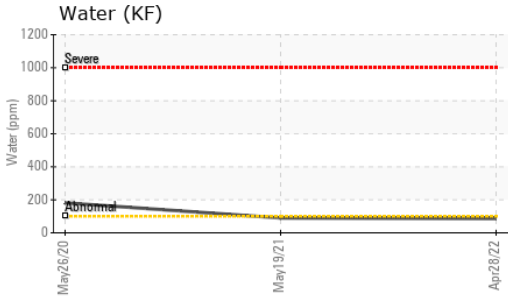
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		165	178	173
5% Distillation Point	°C	ASTM D86		198	203	202
10% Distill Point	°C	ASTM D86		209	211	212
15% Distillation Point	°C	ASTM D86		218	218	219
20% Distill Point	°C	ASTM D86		225	226	226
30% Distill Point	°C	ASTM D86		239	239	240
40% Distill Point	°C	ASTM D86		253	252	253
50% Distill Point	°C	ASTM D86		265	265	266
60% Distill Point	°C	ASTM D86		278	278	279
70% Distill Point	°C	ASTM D86		292	292	292
80% Distill Point	°C	ASTM D86		307	306	306
85% Distillation Point	°C	ASTM D86		315	315	315
90% Distill Point	°C	ASTM D86		326	326	325
95% Distillation Point	°C	ASTM D86		341	342	341
Final Boiling Point	°C	ASTM D86		348	348	347
Distillation Residue	%	ASTM D86		1.4	1.4	1.4
Distillation Loss	%	ASTM D86		0.5	0.7	0.6

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		35.6	35.6	35.4
Cetane Index		ASTM D4737	<40.0	47.3	45.1	45.3

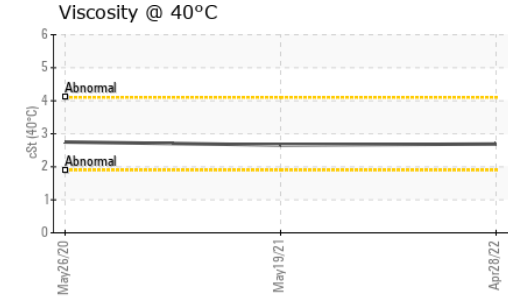
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	0	<1
Sodium	ppm	ASTM D5185m	<0.1	0	14	<1
Potassium	ppm	ASTM D5185m	<0.1	0	<1	0
Water	%	ASTM D6304	<0.05	0.008	0.008	0.018
ppm Water	ppm	ASTM D6304	<500	87.0	89.8	181.7
% Gasoline	%	*In-House	<0.50	---	0.0	0.0
% Biodiesel	%	*In-House	<20.0	---	1.0	1.4

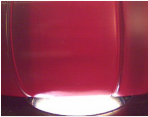



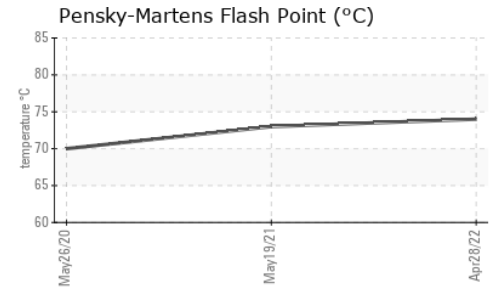
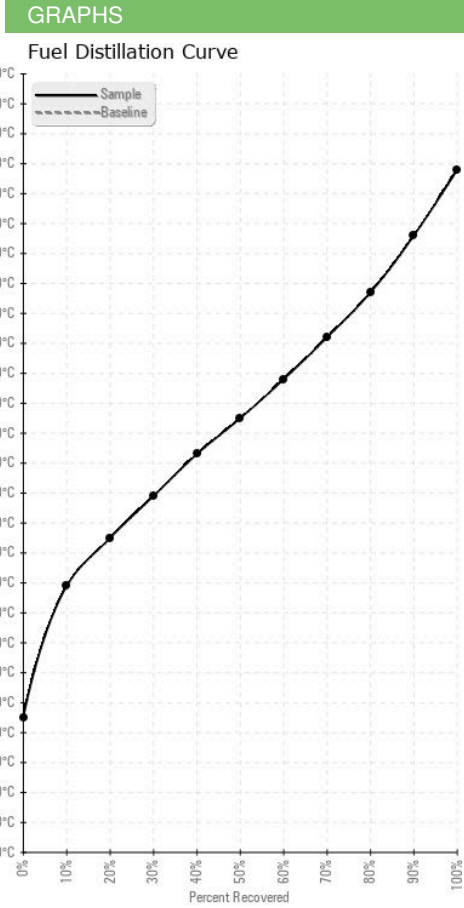
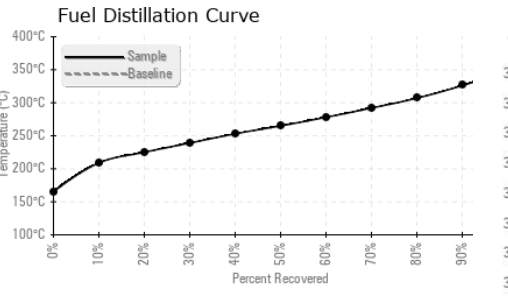
FUEL REPORT



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



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



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WCDF04634 **Received** : 04 May 2022
Lab Number : **05536784** **Diagnosed** : 02 Oct 2023
Unique Number : 9961073 **Diagnostician** : System
Test Package : DF-2 (Additional Tests: CldPt, Screen)

TANK WIZARDS
 1511 MASTERS RD NW
 PALM BAY, FL
 US 32907
 Contact: WENDALL STRODERD
 wendall@tankwizards.com
 T: (321)427-5149
 F: (321)574-4131

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)