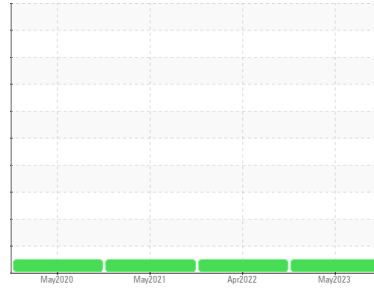




FUEL REPORT

Sample Rating Trend

NORMAL



Machine Id
LAWNWOOD ER

Component
Diesel Fuel
Fluid
DDSL (2225 GAL)

DIAGNOSIS

Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 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, 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			WC05854742	WCDF04635	WCDF02780
Sample Date	Client Info			16 May 2023	28 Apr 2022	19 May 2021
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		0.842	0.844	0.844
Fuel Color	text	*Visual Screen		Red	Red	Red
ASTM Color	scalar	*ASTM D1500		L4.5	L5.5	L5.0
Visc @ 40°C	cSt	ASTM D445		2.48	2.4	2.49
Pensky-Martens Flash Point	°C	*PMCC Calculated		62	64	66
Cloud Point	°C	ASTM D5771		-11	-11	-12

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		251	254	268
Sulfur (UVF)	ppm	ASTM D5453		189	294	266

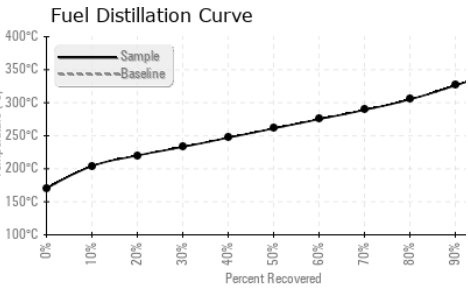
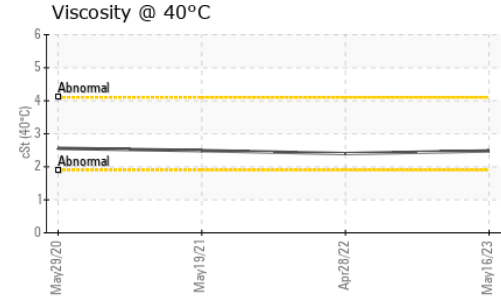
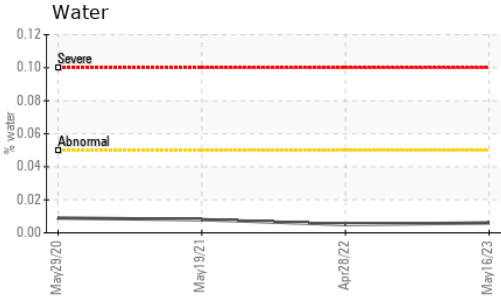
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		170	163	165
5% Distillation Point	°C	ASTM D86		194	194	194
10% Distill Point	°C	ASTM D86		204	205	205
15% Distillation Point	°C	ASTM D86		213	213	214
20% Distill Point	°C	ASTM D86		220	221	221
30% Distill Point	°C	ASTM D86		233	234	234
40% Distill Point	°C	ASTM D86		247	247	248
50% Distill Point	°C	ASTM D86		261	261	261
60% Distill Point	°C	ASTM D86		275	275	275
70% Distill Point	°C	ASTM D86		289	289	289
80% Distill Point	°C	ASTM D86		305	306	305
85% Distillation Point	°C	ASTM D86		314	315	315
90% Distill Point	°C	ASTM D86		326	326	326
95% Distillation Point	°C	ASTM D86		342	343	342
Final Boiling Point	°C	ASTM D86		349	350	350
Distillation Residue	%	ASTM D86		1.4	1.4	1.4
Distillation Loss	%	ASTM D86		0.7	0.6	0.5

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		36.6	36.2	36.2
Cetane Index		ASTM D4737	<40.0	48.0	47.2	47.3

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	0	0
Sodium	ppm	ASTM D5185m	<0.1	0	0	1
Potassium	ppm	ASTM D5185m	<0.1	<1	0	<1
Water	%	ASTM D6304	<0.05	0.006	0.005	0.008
ppm Water	ppm	ASTM D6304	<500	65.3	58.1	86.4
% Gasoline	%	*In-House	<0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	0.0	0.9



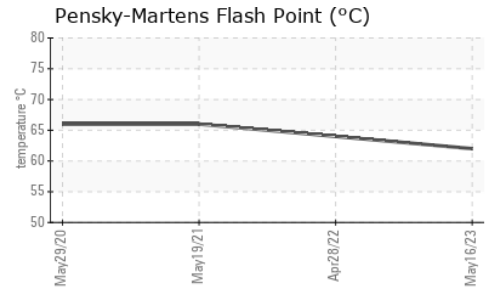
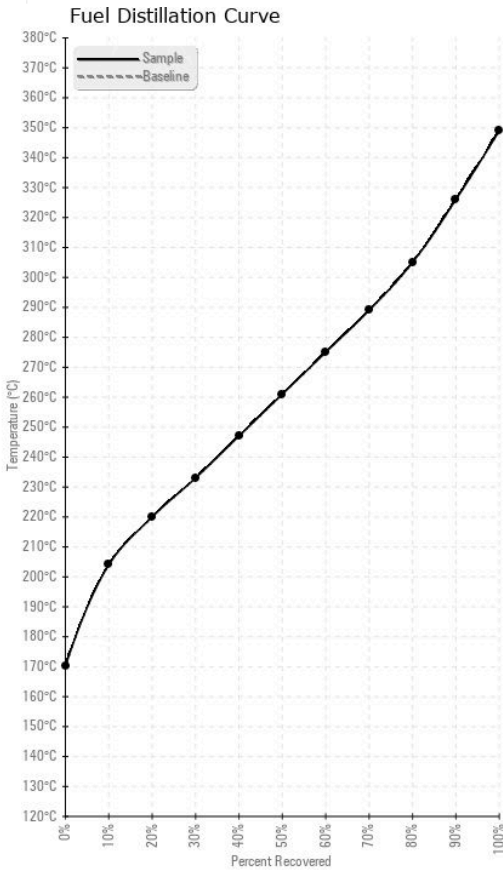
FUEL REPORT



HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	0	<1
Nickel	ppm	ASTM D5185m	<0.1	0	0	<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	0	0	2
Calcium	ppm	ASTM D5185m	<0.1	0	0	4
Magnesium	ppm	ASTM D5185m	<0.1	0	0	<1
Phosphorus	ppm	ASTM D5185m	<0.1	0	<1	<1
Zinc	ppm	ASTM D5185m	<0.1	0	0	0

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC05854742 **Received** : 23 May 2023
Lab Number : 05854742 **Diagnosed** : 30 May 2023
Unique Number : 10484097 **Diagnostician** : Aaron Black
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)