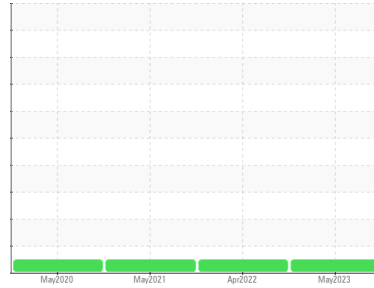




FUEL REPORT

Sample Rating Trend

NORMAL



Machine Id
LAWNWOOD CVICU

Component
Diesel Fuel
Fluid
DDSL (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

There is no Bacteria, Yeast and/or Fungus indicated in the sample. The water content is negligible. 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			WC05854740	WCDF04634	WCDF02778
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		0.846	0.847	0.847
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		2.76	2.69	2.66
Pensky-Martens Flash Point	°C	*PMCC Calculated		56	74	73
Cloud Point	°C	ASTM D5771		-11	-11	-12

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		486	471	606
Sulfur (UVF)	ppm	ASTM D5453		397	524	511

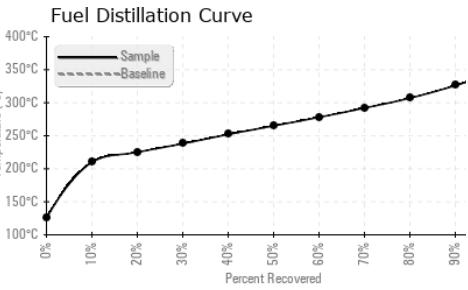
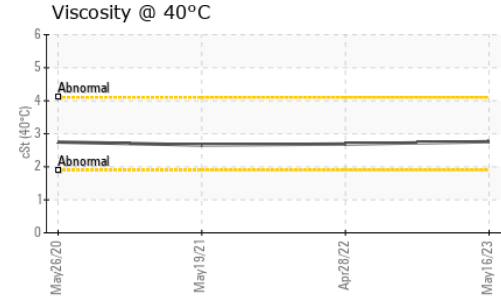
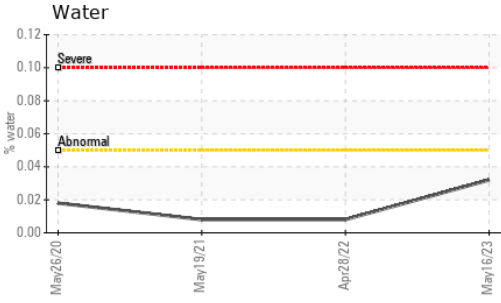
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		125	165	178
5% Distillation Point	°C	ASTM D86		201	198	203
10% Distill Point	°C	ASTM D86		210	209	211
15% Distillation Point	°C	ASTM D86		218	218	218
20% Distill Point	°C	ASTM D86		225	225	226
30% Distill Point	°C	ASTM D86		238	239	239
40% Distill Point	°C	ASTM D86		252	253	252
50% Distill Point	°C	ASTM D86		265	265	265
60% Distill Point	°C	ASTM D86		278	278	278
70% Distill Point	°C	ASTM D86		292	292	292
80% Distill Point	°C	ASTM D86		307	307	306
85% Distillation Point	°C	ASTM D86		316	315	315
90% Distill Point	°C	ASTM D86		326	326	326
95% Distillation Point	°C	ASTM D86		343	341	342
Final Boiling Point	°C	ASTM D86		348	348	348
Distillation Residue	%	ASTM D86		1.4	1.4	1.4
Distillation Loss	%	ASTM D86		0.5	0.5	0.7

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		35.8	35.6	35.6
Cetane Index		ASTM D4737	<40.0	47.6	47.3	45.1

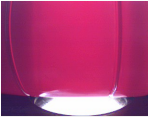
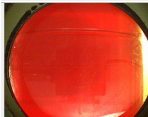
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	0	0
Sodium	ppm	ASTM D5185m	<0.1	0	0	14
Potassium	ppm	ASTM D5185m	<0.1	<1	0	<1
Water	%	ASTM D6304	<0.05	0.032	0.008	0.008
ppm Water	ppm	ASTM D6304	<500	325.1	87.0	89.8
% Gasoline	%	*In-House	<0.50	0.0	---	0.0
% Biodiesel	%	*In-House	<20.0	0.0	---	1.0



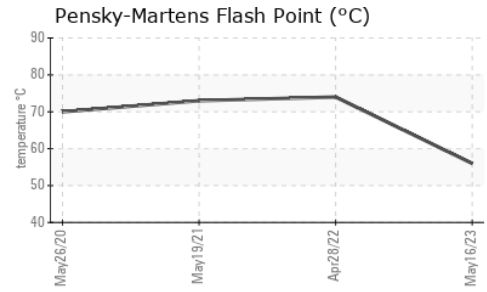
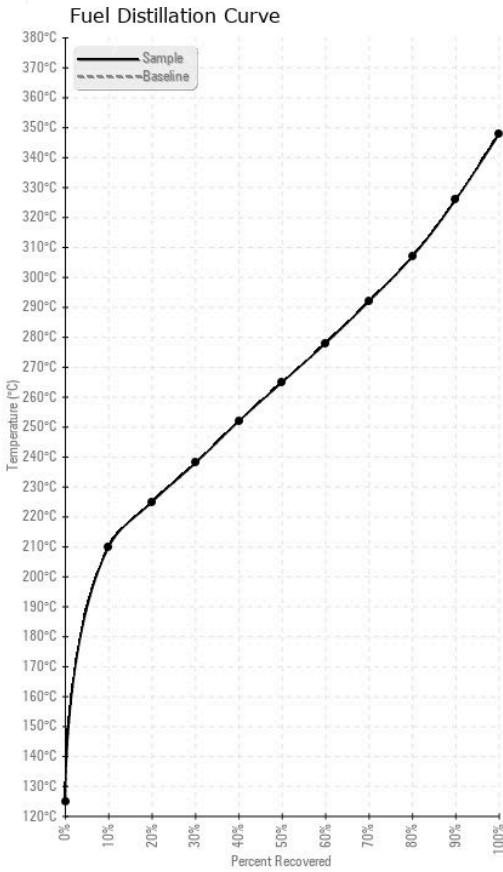
FUEL REPORT



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	<1	1
Calcium	ppm	ASTM D5185m	<0.1	0	<1	6
Magnesium	ppm	ASTM D5185m	<0.1	<1	0	<1
Phosphorus	ppm	ASTM D5185m	<0.1	1	0	1
Zinc	ppm	ASTM D5185m	<0.1	0	0	0

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC05854740 **Received** : 23 May 2023
Lab Number : **05854740** **Diagnosed** : 30 May 2023
Unique Number : 10484095 **Diagnostician** : Aaron Black
Test Package : DF-2 (Additional Tests: CldPt, Screen)

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)

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