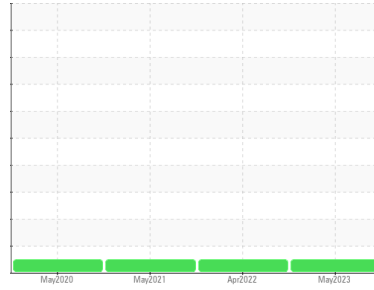




FUEL REPORT

Sample Rating Trend

NORMAL



Machine Id
LAWNWOOD MAIN GEN

Component
Diesel Fuel
Fluid
DDSL (3400 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			WC05854744	WCDF04633	WCDF02695
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		0.840	0.841	0.842
Fuel Color	text	*Visual Screen		Red	Red	Red
ASTM Color	scalar	*ASTM D1500		L4.5	L5.0	L5.5
Visc @ 40°C	cSt	ASTM D445		2.48	2.45	2.5
Pensky-Martens Flash Point	°C	*PMCC Calculated		58	66	65
Cloud Point	°C	ASTM D5771		-11	-11	-12

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0	13	29
Sulfur (UVF)	ppm	ASTM D5453		17	20	20

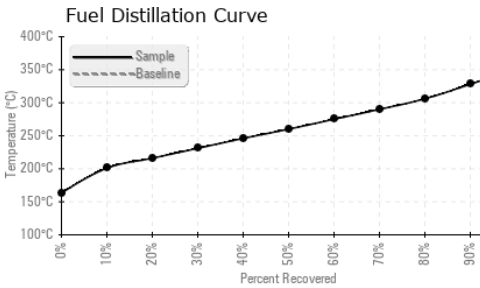
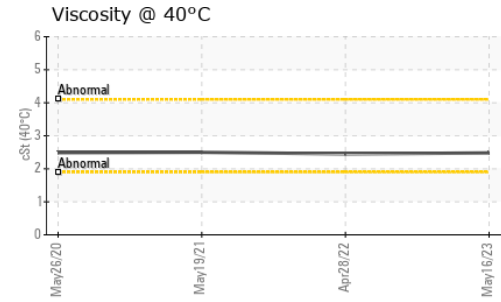
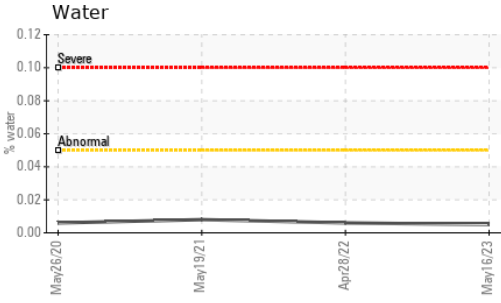
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		163	162	153
5% Distillation Point	°C	ASTM D86		190	191	187
10% Distill Point	°C	ASTM D86		201	200	198
15% Distillation Point	°C	ASTM D86		209	208	207
20% Distill Point	°C	ASTM D86		216	217	215
30% Distill Point	°C	ASTM D86		231	232	229
40% Distill Point	°C	ASTM D86		246	245	243
50% Distill Point	°C	ASTM D86		260	259	257
60% Distill Point	°C	ASTM D86		275	274	272
70% Distill Point	°C	ASTM D86		290	289	287
80% Distill Point	°C	ASTM D86		306	305	304
85% Distillation Point	°C	ASTM D86		316	315	314
90% Distill Point	°C	ASTM D86		328	326	325
95% Distillation Point	°C	ASTM D86		345	343	342
Final Boiling Point	°C	ASTM D86		351	350	350
Distillation Residue	%	ASTM D86		1.4	1.4	1.4
Distillation Loss	%	ASTM D86		1.0	0.8	0.5

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		37.0	36.8	36.6
Cetane Index		ASTM D4737	<40.0	48.5	47.8	47.1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	0	0
Sodium	ppm	ASTM D5185m	<0.1	0	0	1
Potassium	ppm	ASTM D5185m	<0.1	<1	0	<1
Water	%	ASTM D6304	<0.05	0.005	0.006	0.008
ppm Water	ppm	ASTM D6304	<500	55.1	67.6	80.5
% Gasoline	%	*In-House	<0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	0.0	1.5



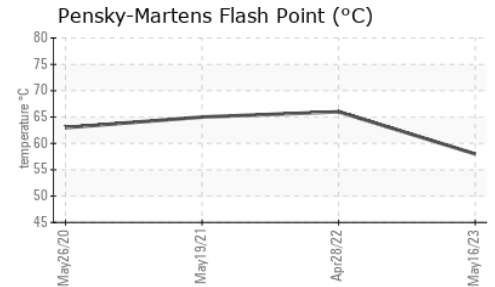
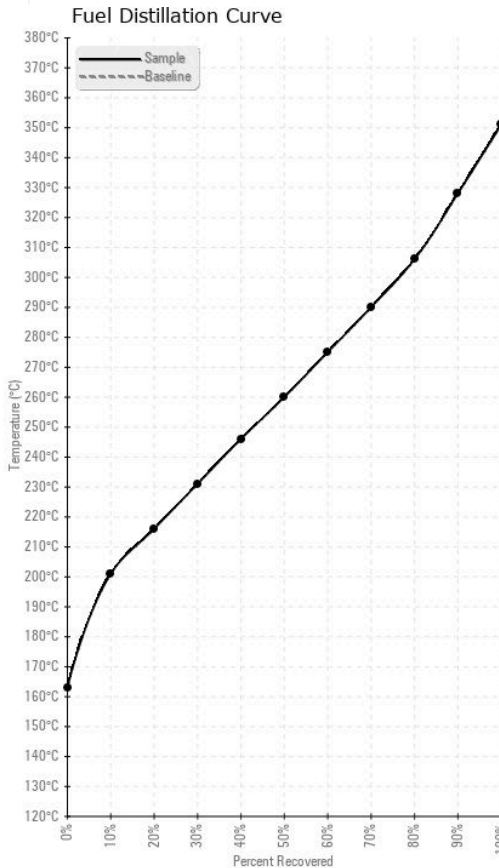
FUEL REPORT



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	1
Calcium	ppm	ASTM D5185m	<0.1	0	0	3
Magnesium	ppm	ASTM D5185m	<0.1	0	0	2
Phosphorus	ppm	ASTM D5185m	<0.1	<1	<1	3
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. : WC05854744 **Received** : 23 May 2023
Lab Number : 05854744 **Diagnosed** : 30 May 2023
Unique Number : 10484099 **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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