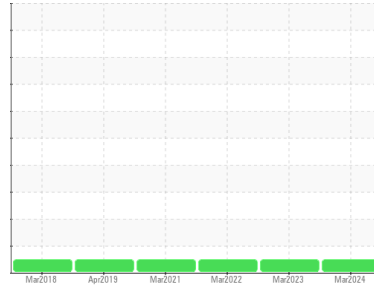




FUEL REPORT

Sample Rating Trend

NORMAL



Machine Id
HRMC FP

Component
Diesel Fuel
Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (200 GAL)

DIAGNOSIS

Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

Corrosion

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

Contaminants

There is no bacteria or fungus (yeast and/or mold) 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. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WCDF4532	WCDF4370	WCDF04378
Sample Date	Client Info			12 Mar 2024	29 Mar 2023	07 Mar 2022
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	0.839	---	0.831	0.842
Fuel Color	text	*Visual Screen	Yellow	Red	Red	Red
ASTM Color	scalar	*ASTM D1500		L4.5	L4.5	L5.0
Visc @ 40°C	cSt	ASTM D445	3.0	2.46	2.05	2.72
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	67.1	56	62
Cloud Point	°C	ASTM D5771		-10	-9	-11

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	5	0	24
Sulfur (UVF)	ppm	ASTM D5453		9	10	11

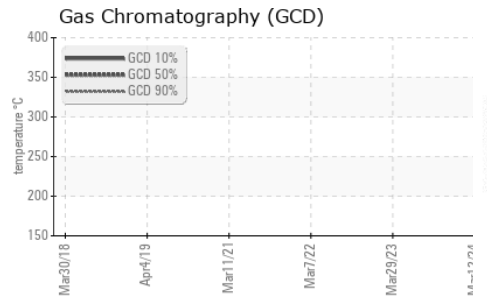
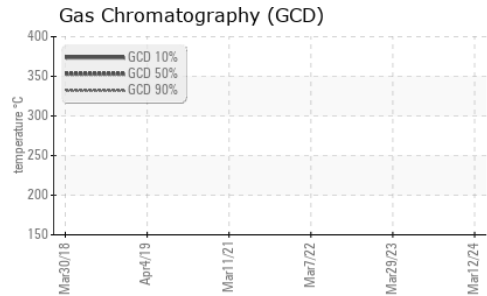
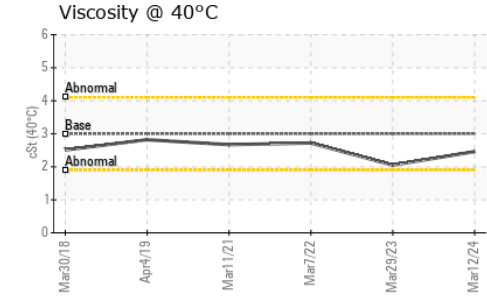
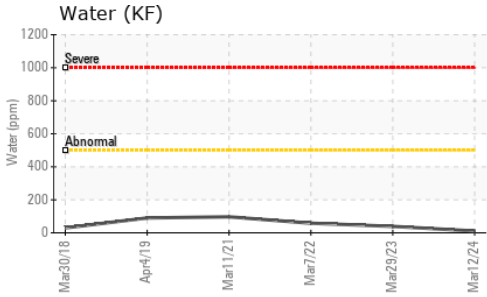
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	177	157	155
5% Distillation Point	°C	ASTM D86		195	181	186
10% Distill Point	°C	ASTM D86	201	203	190	199
15% Distillation Point	°C	ASTM D86		211	200	209
20% Distill Point	°C	ASTM D86	216	219	207	219
30% Distill Point	°C	ASTM D86	230	235	223	235
40% Distill Point	°C	ASTM D86	243	249	241	250
50% Distill Point	°C	ASTM D86	255	264	257	264
60% Distill Point	°C	ASTM D86	267	279	273	278
70% Distill Point	°C	ASTM D86	280	293	289	293
80% Distill Point	°C	ASTM D86	295	310	307	310
85% Distillation Point	°C	ASTM D86		321	317	319
90% Distill Point	°C	ASTM D86	310	331	329	330
95% Distillation Point	°C	ASTM D86		347	346	346
Final Boiling Point	°C	ASTM D86	341	360	354	355
Distillation Residue	%	ASTM D86	3.0	---	1.4	1.4
Distillation Loss	%	ASTM D86	3.0	---	0.6	0.5

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	37.3	38.8	36.6
Cetane Index		ASTM D4737	<40.0	50	50.8	48.3

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	0	0
Sodium	ppm	ASTM D5185m	<0.1	<1	0	0
Potassium	ppm	ASTM D5185m	<0.1	<1	<1	1
Water	%	ASTM D6304	<0.05	0.001	0.003	0.005
ppm Water	ppm	ASTM D6304	<500	11	39.0	58.2
% Gasoline	%	*In-House	<0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	0.0	0.0



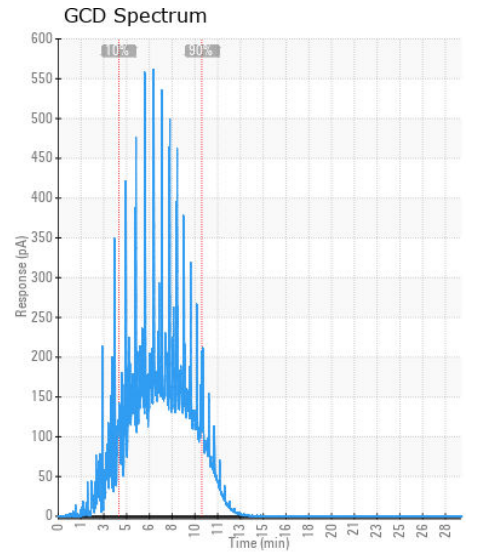
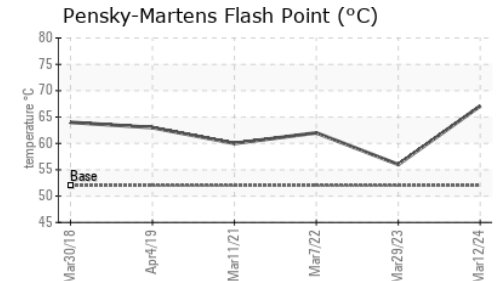
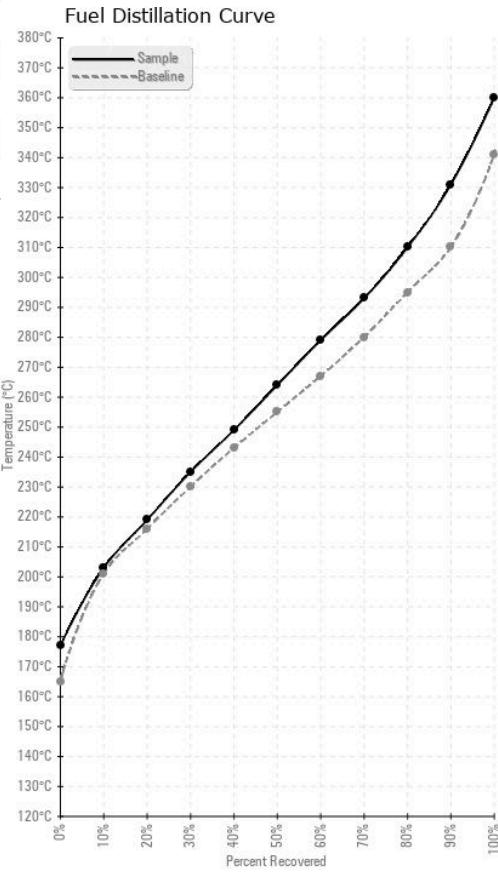
FUEL REPORT



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	0
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	0
Calcium	ppm	ASTM D5185m	<0.1	<1	0	0
Magnesium	ppm	ASTM D5185m	<0.1	0	0	0
Phosphorus	ppm	ASTM D5185m	<0.1	0	5	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



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WCDF4532 **Received** : 18 Mar 2024
Lab Number : 06121308 **Tested** : 01 Apr 2024
Unique Number : 10930141 **Diagnosed** : 01 Apr 2024 - Doug Bogart
Test Package : DF-2 (Additional Tests: CldPt, Fuel, Screen)

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

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)