

FUEL REPORT



HF PAIN MANAGEMENT GEN

Component

Tank	Diese	l Fuel
Fluid		
DDSL	_ (G	AL)

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

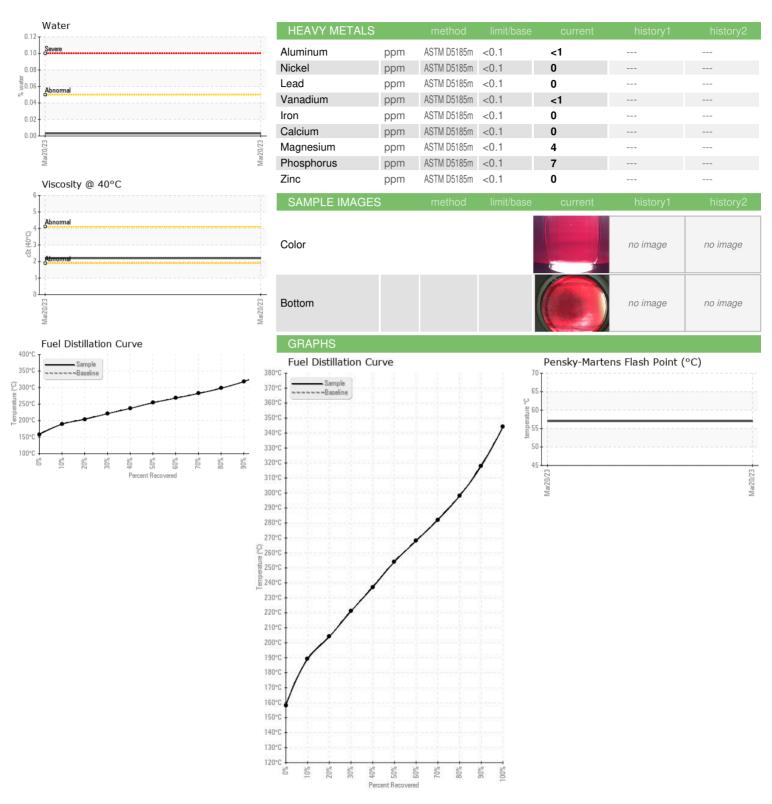
Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

Mar2023	

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WCDF4353		
Sample Date		Client Info		20 Mar 2023		
Machine Age	mls	Client Info		0		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.834		
Fuel Color	text	*Visual Screen		Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445		2.2		
Pensky-Martens Flash Point	°C	*PMCC Calculated		57		
Cloud Point	°C	ASTM D5771		-13		
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		9		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		158		
5% Distillation Point	°C	ASTM D86		180		
10% Distill Point	°C	ASTM D86		189		
15% Distillation Point	°C	ASTM D86		197		
20% Distill Point	°C	ASTM D86		204		
30% Distill Point	°C	ASTM D86		221		
40% Distill Point	°C	ASTM D86		237		
50% Distill Point	°C	ASTM D86		254		
60% Distill Point	°C	ASTM D86		268		
70% Distill Point	°C	ASTM D86		282		
80% Distill Point	°C	ASTM D86		298		
85% Distillation Point	°C	ASTM D86		307		
90% Distill Point	°C	ASTM D86		318		
95% Distillation Point	°C	ASTM D86		334		
Final Boiling Point	°C	ASTM D86		344		
Distillation Residue	%	ASTM D86		1.4		
Distillation Loss	%	ASTM D86		0.5		
IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		38.2		
Cetane Index		ASTM D4737	<40.0	48.6		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1		
Sodium	ppm	ASTM D5185m	<0.1	<1		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	< 0.05	0.003		
ppm Water	ppm	ASTM D6304	<500	29.6		
% Gasoline	%	*In-House	< 0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		
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FUEL REPORT





Laboratory Sample No. Lab Number Unique Number

: 05796426

: WCDF4353 : 10386110

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

Diagnostician : Doug Bogart Test Package : DF-2 (Additional Tests: CLDPT, Screen)

: 20 Mar 2023 : 28 Mar 2023 1511 MASTERS RD NW PALM BAY, FL US 32907

Contact: WENDALL STRODERD wendall@tankwizards.com

T: (321)427-5149 F: (321)574-4131

TANK WIZARDS

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)