

Area

FUEL REPORT

Sample Rating Trend

ISO

C-1-D Component Bulk Tank Diesel Fuel
Fluid DIESEL FUEL No. 2 (GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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 a moderate amount of particulates present in the fuel. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample.

Fuel Condition

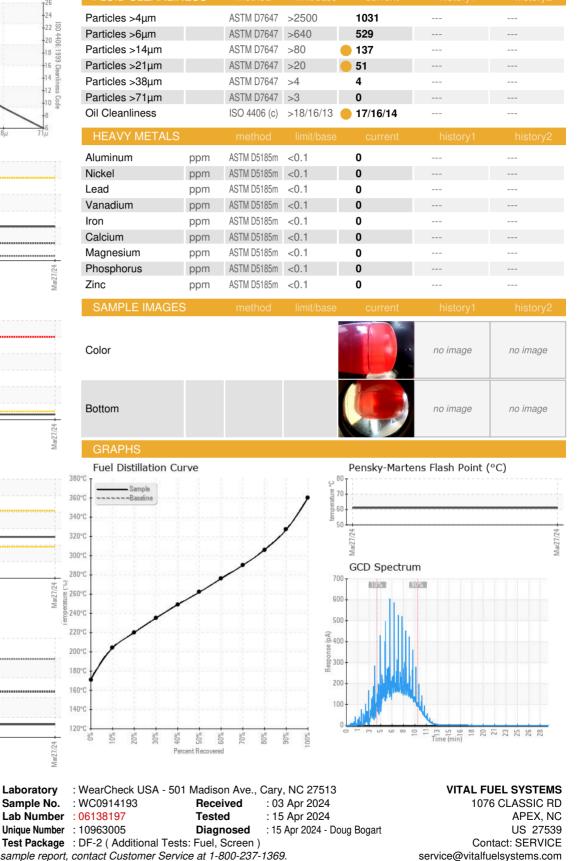
Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0914193		
Sample Date		Client Info		27 Mar 2024		
Machine Age	hrs	Client Info		0		
Sample Status				ATTENTION		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen		Red		
ASTM Color	scalar	*ASTM D1500		L4.0		
Visc @ 40°C	cSt	ASTM D445	4.1	2.5		
Pensky-Martens Flash Point	°C	*PMCC Calculated		61.1		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		10		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		171		
5% Distillation Point	°C	ASTM D86		194		
10% Distill Point	°C	ASTM D86		204		
15% Distillation Point	°C	ASTM D86		212		
20% Distill Point	°C	ASTM D86		220		
30% Distill Point	°C	ASTM D86		235		
40% Distill Point	°C	ASTM D86		249		
50% Distill Point	°C	ASTM D86		262		
60% Distill Point	°C	ASTM D86		276		
70% Distill Point	°C	ASTM D86		290		
80% Distill Point	°C	ASTM D86		306		
85% Distillation Point	°C	ASTM D86		316		
90% Distill Point	°C	ASTM D86		327		
95% Distillation Point	°C	ASTM D86		345		
Final Boiling Point	°C	ASTM D86		360		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		36		
Cetane Index		ASTM D4737	<40.0	48		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0		
Sodium	ppm	ASTM D5185m	<0.1	1		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	<0.05	0.006		
ppm Water	ppm	ASTM D6304	<500	63		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



FUEL REPORT

	Particle Count	FLUI
491,520	[
122,880 = 30,720	-	Particle
E 7,680		Particle
(1 30,720 7,680 1,920 480 480 120 30 30 30 480 480 30 30 480 480 480 480 480 480 480 480 480 48	Abnormal +18	Particle
-90 -111 480		Particle
t 120	14	Particle
agu 30	12	Particle
6		Oil Cle
2		Oli Cie
0	μ 6μ 14μ 21μ 38μ 71μ	HEA
3k	Particle Trend	Alumin
	Ponomar 4µm	Nickel
E 3K	- Τακεσοσσασσα 6μm	Lead
sa 2k		Vanadi
le 2k	-	
(1 m) saticles (1 m) (1 m) (1 m)		Iron
1k		Calciur
Ok		Magne
	7/24	Phosph
	Mar27/24 Mar27/24	Zinc
	Water (KE)	SAM
1200	Water (KF)	
1000	Severe	
- 800	-	Color
udd) 1 600		
000 Mater (ppm) 400 400		
100		
200	Abnormal	Bottom
0	24	-
	Mar27/24 Mar27/24	
	N N	GRA
	Viscosity @ 40°C	Fuel
6	[- 380°C -
5	<u>Base</u> rmal	360°C
G ⁴		340°C -
cSt (40°C)		22000
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Abnormal	320°C
1	_	300°C -
0		280°C -
0	Mar27/24	් 260°C -
	Marć	260°C -
	Gas Chromatography (GCD)	Ê 240°C -
400		220°C -
350	GCD 10% GCD 50%	200°C -
	0.00.000	180°C
e 300		- 160°C
	-	
dia 250		14040
2, a 300 temperature 250 200		140°C -
200		120°C
	Mar27/24	- AND THE REAL PROPERTY OF



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)

Report Id: VITAPE [WUSCAR] 06138197 (Generated: 04/15/2024 21:52:28) Rev: 1

Certificate 12367

Laboratory

Sample No.

Contact/Location: SERVICE ? - VITAPE

T: (919)629-8180

F: (919)303-7399