

ISO

Area QTS ATLANTA GA DC2 [4826] [QTS ATLANTA GA DC2] R2

Diesel Fuel

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR)

DIAGNOSIS

Recommendation

We advise that you filter this fluid before use. 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 high amount of particulates present in the fuel. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible.

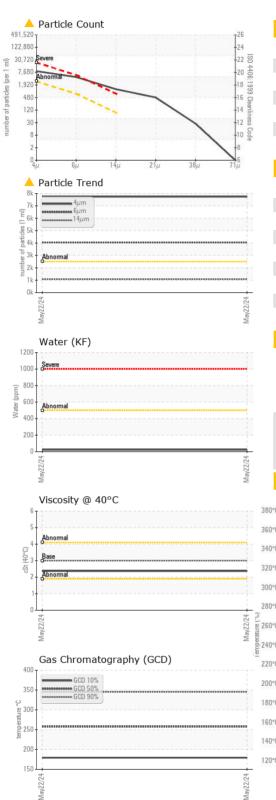
Fuel Condition

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

l) (9000 GAL)				May2024		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0953882		
Sample Date		Client Info		22 May 2024		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yllow	Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445	3.0	2.37		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	59.6		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0		
Sulfur (UVF)	ppm	ASTM D5453		8		
DISTILLATION		method	limit/base	current	history1	history2
nitial Boiling Point	°C	ASTM D86	165	171		
5% Distillation Point	°C	ASTM D86		192		
10% Distill Point	°C	ASTM D86	201	201		
15% Distillation Point	°C	ASTM D86		208		
20% Distill Point	°C	ASTM D86	216	215		
30% Distill Point	°C	ASTM D86	230	229		
40% Distill Point	°C	ASTM D86	243	242		
50% Distill Point	°C	ASTM D86	255	256		
60% Distill Point	°C	ASTM D86	267	270		
70% Distill Point	°C	ASTM D86	280	285		
30% Distill Point	°C	ASTM D86	295	302		
35% Distillation Point	°C	ASTM D86		313		
90% Distill Point	°C	ASTM D86	310	325		
95% Distillation Point	°C	ASTM D86		344		
Final Boiling Point	°C	ASTM D86	341	359		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	37		
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	2		
Water	%	ASTM D6304	<0.05	0.002		
opm Water	ppm	ASTM D6304	<500	23		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



FUEL REPORT



	FLUID CLEANLIN	VESS	method	limit/base	e current	history1	history2
	Particles >4µm		ASTM D7647		▲ 7742		
	Particles >6µm		ASTM D7647 ASTM D7647		▲ 4047		
	Particles >14µm		ASTM D7647 ASTM D7647		▲ 1062		
	Particles >21µm		ASTM D7647	>20	▲ 425		
	Particles >38µm		ASTM D7647	>4	▲ 24		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)	>18/16/13			
	HEAVY METALS		method	limit/base		history1	history2
	Aluminum	ppm	ASTM D5185m	<0.1	0		
	Nickel	ppm	ASTM D5185m	<0.1	0		
	Lead	ppm	ASTM D5185m	<0.1	0		
	Vanadium	ppm	ASTM D5185m	<0.1	0		
	Iron	ppm	ASTM D5185m	<0.1	0		
	Calcium	ppm	ASTM D5185m	<0.1	0		
	Magnesium	ppm	ASTM D5185m	<0.1	0		
	Phosphorus	ppm	ASTM D5185m	<0.1	0		
	Zinc	ppm	ASTM D5185m	<0.1	2		
	SAMPLE IMAGES	S	method	limit/base	e current	history1	history
	Bottom					no image	no image
380° 360° 340°	CBaseline	irve		competature °C	70 60 50 Base	ns Flash Point (°C)
320					40		
300°	c -		1	.	May22/24		
280°	c -		1		GCD Spectrum	ı	
(h) anneadua 240° 220° 200°	C			 			
180°	c			1	250 - 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Made	
160° 140°	с -						

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Unique Number : 11069819 Diagnosed : 14 Jun 2024 - Doug Bogart Test Package : DF-2 (Additional Tests: Fuel, Screen) Certificate 12367 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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