

Diesel Fuel

Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (4200 GAL)

DIAGNOSIS

Recommendation

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

Corrosion

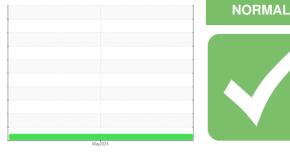
All metal levels are normal indicating no corrosion in the system.

Contaminants

The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The amount and size of particulates present in the system are acceptable. 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.



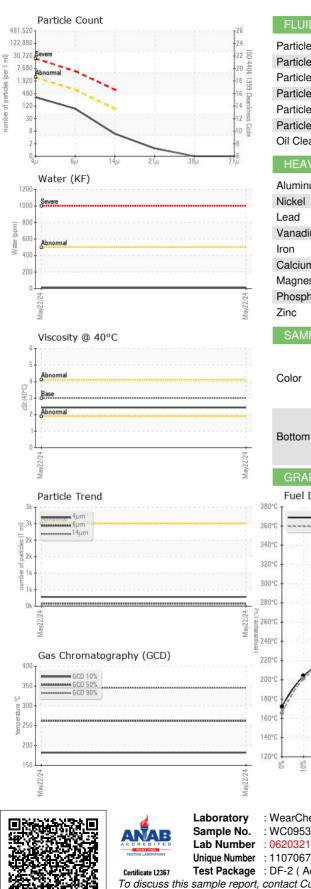
Sample Rating Trend



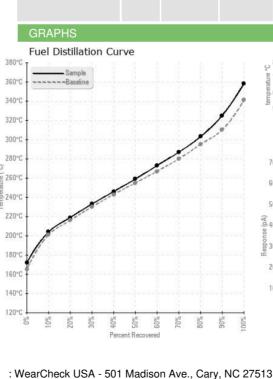
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0953952		
Sample Date		Client Info		22 May 2024		
Machine Age	hrs	Client Info		0		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yllow	Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445	3.0	2.43		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	61.5		
SULFUR CONTEN	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	6		
Sulfur (UVF)	ppm	ASTM D5453		8		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	172		
5% Distillation Point	°C	ASTM D86		194		
10% Distill Point	°C	ASTM D86	201	204		
15% Distillation Point	°C	ASTM D86		211		
20% Distill Point	°C	ASTM D86	216	219		
30% Distill Point	°C	ASTM D86	230	233		
40% Distill Point	°C	ASTM D86	243	246		
50% Distill Point	°C	ASTM D86	255	259		
60% Distill Point	°C	ASTM D86	267	273		
70% Distill Point	°C	ASTM D86	280	287		
80% Distill Point	°C	ASTM D86	295	303		
85% Distillation Point	°C	ASTM D86		314		
90% Distill Point	°C	ASTM D86	310	325		
95% Distillation Point	°C	ASTM D86		343		
Final Boiling Point	°C	ASTM D86	341	358		
IGNITION QUALI	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	37		
Cetane Index		ASTM D4737	<40.0	49		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0		
Sodium	ppm	ASTM D5185m	<0.1	2		
Potassium	ppm	ASTM D5185m	<0.1	2		
Water	%	ASTM D6304	<0.05	0.001		
ppm Water	ppm	ASTM D6304	<500	8		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



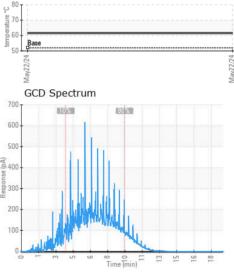
FUEL REPORT



FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
articles >4µm		ASTM D7647	>2500	282		
articles >6µm		ASTM D7647	>640	80		
articles >14µm		ASTM D7647	>80	5		
articles >21µm		ASTM D7647	>20	1		
articles >38µm		ASTM D7647	>4	0		
articles >71µm		ASTM D7647	>3	0		
il Cleanliness		ISO 4406 (c)	>18/16/13	15/13/10		
HEAVY METALS		method	limit/base	current	history1	history2
luminum	ppm	ASTM D5185m	<0.1	0		
ickel	ppm	ASTM D5185m	<0.1	<1		
ead	ppm	ASTM D5185m	<0.1	0		
anadium	ppm	ASTM D5185m	<0.1	0		
on	ppm	ASTM D5185m	<0.1	0		
alcium	ppm	ASTM D5185m	<0.1	<1		
lagnesium	ppm	ASTM D5185m	<0.1	<1		
hosphorus	ppm	ASTM D5185m	<0.1	10		
inc	ppm	ASTM D5185m	<0.1	5		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
olor					no image	no image
ottom					no image	no image



Pensky-Martens Flash Point (°C)



: WC0953952 : 07 Jun 2024 210 POWELL DR Received Lab Number : 06203216 Tested : 13 Jun 2024 SUMMERVILLE, SC Unique Number : 11070677 Diagnosed : 13 Jun 2024 - Elizabeth Valachovic Test Package : DF-2 (Additional Tests: Fuel, Screen) Contact: AJAY EL To discuss this sample report, contact Customer Service at 1-800-237-1369. Ajay@prsfuel.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (843)225-1777 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: PETSUM [WUSCAR] 06203216 (Generated: 06/15/2024 08:14:26) Rev: 1

Contact/Location: AJAY EL - PETSUM

PETROLEUM RECOVERY SERVICES

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