

FUEL REPORT

Sample Rating Trend

NORMAL

GOOGLE-LNR-B-1-F

Diesel Fuel Fluid DIESEL FUEL No. 2 (--- 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) present in the sample. There is no indication of any contamination in the fuel. The amount and size of particulates present in the system are acceptable.

Fuel Condition

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

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SAMPLE INFORM		method	limit/base	current	biotonut	history2
	ATION		IIIIII/Dase		history1	TIIStOry2
Sample Number		Client Info		WC0869448		
Sample Date		Client Info		05 Oct 2023		
Machine Age	hrs	Client Info		0		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.844		
Fuel Color	text	*Visual Screen		Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445	4.1	2.59		
Pensky-Martens Flash Point	°C	*PMCC Calculated		57		
SULFUR CONTER	٨T	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		13		
	I. I.	and the set	1' 't /l		In the transmitter	history O
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		158		
5% Distillation Point	°C	ASTM D86		192		
10% Distill Point	°C	ASTM D86		203		
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		275		
70% Distill Point	°C	ASTM D86		289		
80% Distill Point	°C	ASTM D86		306		
85% Distillation Point	°C	ASTM D86		315		
90% Distill Point	°C	ASTM D86		326		
95% Distillation Point	°C	ASTM D86		343		
Final Boiling Point	°C	ASTM D86		347		
Distillation Residue	%	ASTM D86		1.4		
Distillation Loss	%	ASTM D86		0.7		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		36.2		
Cetane Index		ASTM D4737	<40.0	47.5		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0		
Sodium	ppm	ASTM D5185m	<0.1	0		
Potassium	ppm	ASTM D5185m	<0.1	<1		
Water	%	ASTM D6304	<0.05	0.008		
ppm Water	ppm	ASTM D6304	<500	89.5		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



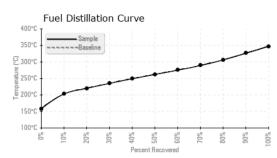
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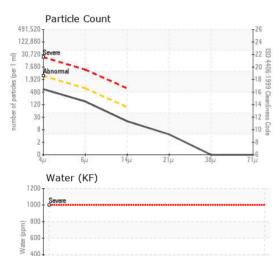
FUEL REPORT

FLUID CLEANLINESS

Particles >4µm

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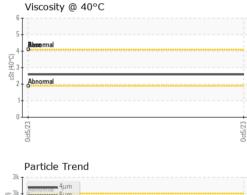




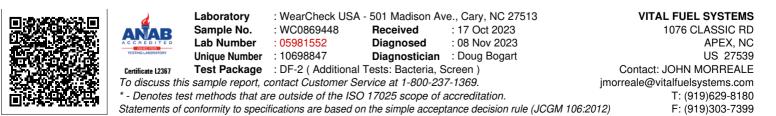
	ASTM D7647	>640	150		
	ASTM D7647	>80	17		
	ASTM D7647	>20	4		
	ASTM D7647	>4	0		
	ASTM D7647	>3	0		
	ISO 4406 (c)	>18/16/13	16/14/11		
	method	limit/base	current	history1	history2
CFU/ml	WC-Method	>=100000	0		
CFU/ml	WC-Method	>=100000	0		
Colonies	WC-Method	MODER			
	method	limit/base	current	history1	history2
ppm	ASTM D5185m	<0.1	0		
ppm	ASTM D5185m	<0.1	0		
ppm	ASTM D5185m	<0.1	0		
ppm	ASTM D5185m	<0.1	0		
ppm	ASTM D5185m	<0.1	0		
ppm	ASTM D5185m	<0.1	<1		
ppm	ASTM D5185m	<0.1	<1		
ppm	ASTM D5185m	<0.1	6		
ppm	ASTM D5185m	<0.1	0		
5	method	limit/base	current	history1	history2
				no image	no image
				no image	no image
	CFU/ml Colonies ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D7647ASTM D7647ASTM D7647ASTM D7647ISO 4406 (c)ISO 4406 (c)CFU/mlWC-MethodCFU/mlWC-MethodColoniesWC-MethodColoniesNSTM D5185mppmASTM D5185m	ASTM D7647 >80 ASTM D7647 >20 ASTM D7647 >20 ASTM D7647 >4 ASTM D7647 >3 ISO 4406 (c) >18/16/13 method >=100000 CFU/ml WC-Method >=100000 CFU/ml WC-Method >=100000 Colonies WC-Method >=100000 CFU/ml WC-Method >0.1 ppm ASTM D5185m <0.1	ASTM D7647 >80 17 ASTM D7647 >20 4 ASTM D7647 >4 0 ASTM D7647 >3 0 ASTM D7647 >3 0 ISO 4406 (c) >18/16/13 16/14/11 CFU/ml WC-Method >=100000 0 CFU/ml WC-Method >=100000 0 CFU/ml WC-Method >=100000 0 Colonies WC-Method >=100000 0 Colonies WC-Method >=100000 0 ppm ASTM D5185m <0.1	ASTM D7647 >80 17 ASTM D7647 >20 4 ASTM D7647 >4 0 ASTM D7647 >3 0 ISO 4406 (c) >18/16/13 16/14/11 ISO 4406 (c) >18/16/13 16/14/11 CFU/ml WC-Method >=100000 0 CFU/ml WC-Method >=100000 0 CFU/ml WC-Method >=100000 0 CFU/ml WC-Method >=100000 0 Colonies WC-Method MODER ppm ASTM D5185m <0.1

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ASTM D7647 >2500







Contact/Location: JOHN MORREALE - VITAPE