

FUEL REPORT

Sample Rating Trend

ISO

Machine Io **GOOGLE-LNR-B-2-J** Component

Diesel Fuel Fluid DIESEL FUEL No. 2 (--- GAL)

DIAGNOSIS

A 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. 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.

				Oct2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0869484		
Sample Date		Client Info		05 Oct 2023		
Machine Age	hrs	Client Info		0		
Sample Status				ATTENTION		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.847		
Fuel Color	text	*Visual Screen		Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445	4.1	2.53		
Pensky-Martens Flash Point	°C	*PMCC Calculated		59		
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		165		
5% Distillation Point	°C	ASTM D86		192		
10% Distill Point	°C	ASTM D86		204		
15% Distillation Point	°C	ASTM D86		213		
20% Distill Point	°C	ASTM D86		220		
30% Distill Point	°C	ASTM D86		234		
40% Distill Point	°C	ASTM D86		247		
50% Distill Point	°C	ASTM D86		260		
60% Distill Point	°C	ASTM D86		273		
70% Distill Point	°C	ASTM D86		287		
80% Distill Point	°C	ASTM D86		303		
85% Distillation Point	°C	ASTM D86		313		
90% Distill Point	°C	ASTM D86		324		
95% Distillation Point	°C	ASTM D86		342		
Final Boiling Point	°C	ASTM D86		348		
Distillation Residue Distillation Loss	%	ASTM D86 ASTM D86		1.4 0.8		
IGNITION QUALIT			limit/base			
API Gravity	I	Method ASTM D7777	IIIIII/Dase	current 35.6	history1	history2
Cetane Index		ASTM D7777 ASTM D4737	<40.0	45.8		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	<1.0 <0.1	0		
Potassium	ppm	ASTM D5185m ASTM D5185m	<0.1	ں <1		
Water	ppm %	ASTM D5185m ASTM D6304	<0.1	<1 0.008		
ppm Water		ASTM D6304 ASTM D6304	<0.05	81.2		
% Gasoline	ppm %	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<0.50	0.0		
	/0	in-nouse	< <u>20.0</u>	0.0		



(40°C)

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cSt (40°C)

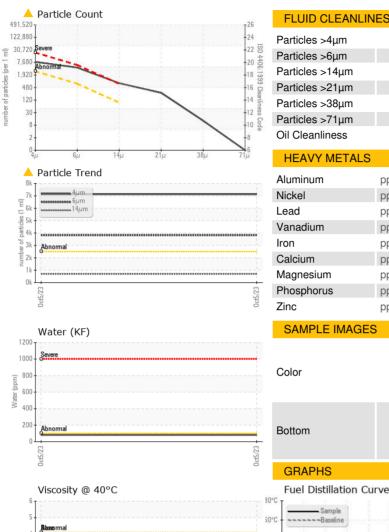
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Abnorma

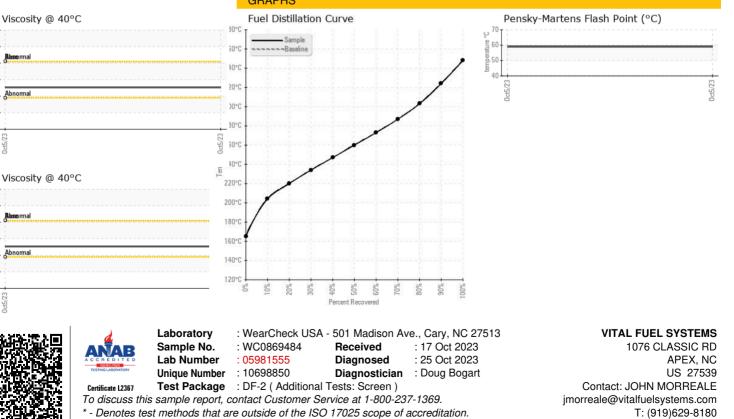
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FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	A 7133		
Particles >6µm		ASTM D7647	>640	<u> </u>		
Particles >14µm		ASTM D7647	>80	683		
Particles >21µm		ASTM D7647	>20	<u> </u>		
Particles >38µm		ASTM D7647	>4	1 1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	A 20/19/17		
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	2		
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	1		
Magnesium	ppm	ASTM D5185m	<0.1	<1		
Phosphorus	ppm	ASTM D5185m	<0.1	0		
Zinc	ppm	ASTM D5185m	<0.1	0		
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				N B	no image	no image
Bottom					no image	no image



* - 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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