

FUEL REPORT

Water

ppm Water

% Gasoline

% Biodiesel

%

%

%

ppm

ASTM D6304 < 0.05

ASTM D6304 <500

*In-House <0.50

*In-House <20.0

0.005

53.4

0.0

0.0

Sample Rating Trend

NORMAL

UNC ROCKINGHAM - GEN 3 Component

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

Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel.

Corrosion

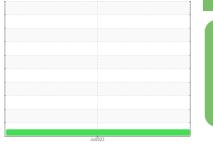
All metal levels are normal indicating no corrosion in the system.

Contaminants

The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. 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.





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SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0767484		
Sample Date		Client Info		14 Jul 2023		
Machine Age	hrs	Client Info		0		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.849		
Fuel Color	text	*Visual Screen		Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445	4.1	2.5		
Pensky-Martens Flash Point	°C	*PMCC Calculated		60		
SULFUR CONTEI	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		1105		
Sulfur (UVF)	ppm	ASTM D5453		922		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		166		
5% Distillation Point	°C	ASTM D86		195		
10% Distill Point	°C	ASTM D86		205		
15% Distillation Point	°C	ASTM D86		214		
20% Distill Point	°C	ASTM D86		222		
30% Distill Point	°C	ASTM D86		234		
40% Distill Point	°C	ASTM D86		248		
50% Distill Point	°C	ASTM D86		260		
60% Distill Point	°C	ASTM D86		273		
70% Distill Point	°C	ASTM D86		286		
80% Distill Point	°C	ASTM D86		302		
85% Distillation Point	°C	ASTM D86		312		
90% Distill Point	°C	ASTM D86		324		
95% Distillation Point	°C	ASTM D86		343		
Final Boiling Point	°C	ASTM D86		350		
Distillation Residue	%	ASTM D86		1.4		
Distillation Loss	%	ASTM D86		0.9		
IGNITION QUALI	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		35.2		
Cetane Index		ASTM D4737	<40.0	42.8		
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		
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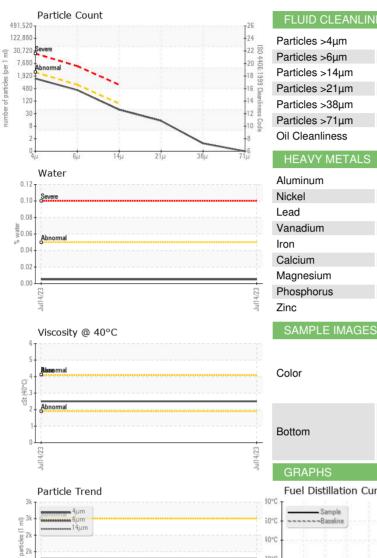
in Single

ັຍ 1k

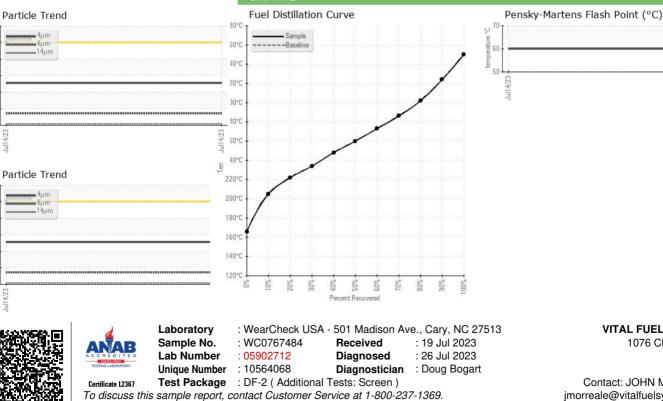
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FUEL REPORT



FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>2500	1276				
Particles >6µm		ASTM D7647	>640	359				
Particles >14µm		ASTM D7647	>80	41				
Particles >21µm		ASTM D7647	>20	12				
Particles >38µm		ASTM D7647	>4	1				
Particles >71µm		ASTM D7647	>3	0				
Oil Cleanliness		ISO 4406 (c)	>18/16/13	17/16/13				
HEAVY METALS		method	limit/base	current	history1	history2		
Aluminum	ppm	ASTM D5185m	<0.1	<1				
Nickel	ppm	ASTM D5185m	<0.1	0				
Lead	ppm	ASTM D5185m	<0.1	0				
Vanadium	ppm	ASTM D5185m	<0.1	<1				
Iron	ppm	ASTM D5185m	<0.1	0				
Calcium	ppm	ASTM D5185m	<0.1	0				
Magnesium	ppm	ASTM D5185m	<0.1	1				
Phosphorus	ppm	ASTM D5185m	<0.1	<1				
Zinc	ppm	ASTM D5185m	<0.1	0				
SAMPLE IMAGES	S	method	limit/base	current	history1	history2		
Color				5	no image	no image		
Bottom					no image	no image		
GRAPHS								



* - 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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