

Area

## **FUEL REPORT**

Sample Rating Trend

# WATER

**ILNR B2B CUMMINS] C-1-F** Component **Bulk Tank Diesel Fuel** Fluid **DIESEL FUEL No. 2 (--- GAL)** 

### DIAGNOSIS

### A Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.

### Corrosion

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

### Contaminants

There is a high amount of particulates present in the fuel. Free water present. There is no bacteria or fungus (yeast and/or mold) present in the sample.

### **Fuel Condition**

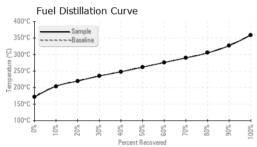
Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

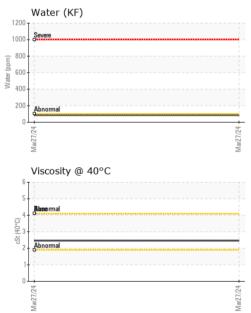
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0914195		
Sample Date		Client Info		27 Mar 2024		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen		Red		
ASTM Color	scalar	*ASTM D1500		L4.0		
Visc @ 40°C	cSt	ASTM D445	4.1	2.46		
Pensky-Martens Flash Point	°C	*PMCC Calculated		60.8		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		8		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		171		
5% Distillation Point	°C	ASTM D86		194		
10% Distill Point	°C	ASTM D86		204		
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		248		
50% Distill Point	°C	ASTM D86		262		
60% Distill Point	°C	ASTM D86		276		
70% Distill Point	°C	ASTM D86		290		
80% Distill Point	°C	ASTM D86		305		
85% Distillation Point	°C	ASTM D86		316		
90% Distill Point	°C	ASTM D86		327		
95% Distillation Point	°C	ASTM D86		345		
Final Boiling Point	°C	ASTM D86		359		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		36		
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	0		
Water	%	ASTM D6304	<0.05	0.008		
ppm Water	ppm	ASTM D6304	<500	86		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



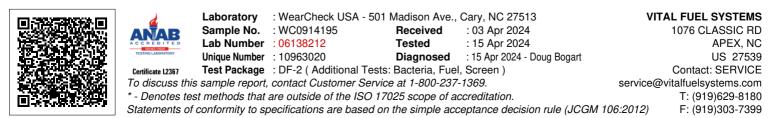
# **FUEL REPORT**

91,520 T	ticle Coun	τ			T <sup>26</sup>
22,880 -					-24
30,720 Severe					-22 8
7,680 Abnon					-20 -18 -16 -14 -12
1,920					-18
480 -			-		-16 9
120-					-14
30-					-12 §
8-					-10
2-					8
0. 4μ	6µ	14µ	21µ	38µ	71µ
	4μm 6μm				
E 5k - September 2k - Abm	ormat				
Septed Josef Ak					
E 1) 5k - Abn Sapated Jo Jacquark					
The second secon					Mar27/24





FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>6720</b>		
Particles >6µm		ASTM D7647	>640	<u> </u>		
Particles >14µm		ASTM D7647	>80	<u> </u>		
Particles >21µm		ASTM D7647	>20	<u> </u>		
Particles >38µm		ASTM D7647	>4	<u> </u>		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>A</b> 20/19/16		
MICROBIAL		method	limit/base	current	history1	history2
Bacteria	CFU/ml	WC-Method	>=100000	0		
Yeast	CFU/ml	WC-Method	>=100000	0		
Mold	Colonies	WC-Method	MODER			
HEAVY METALS		method	limit/base	current	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	0		
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image



Contact/Location: SERVICE ? - VITAPE

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