

FUEL REPORT

[LNR B2B CUMMINS]

C-2-G

Bulk Tank Diesel Fuel

DIESEL FUEL No. 2 (--- GAL)

Sample Rating Trend ISO

DIAGNOSIS

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.

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.

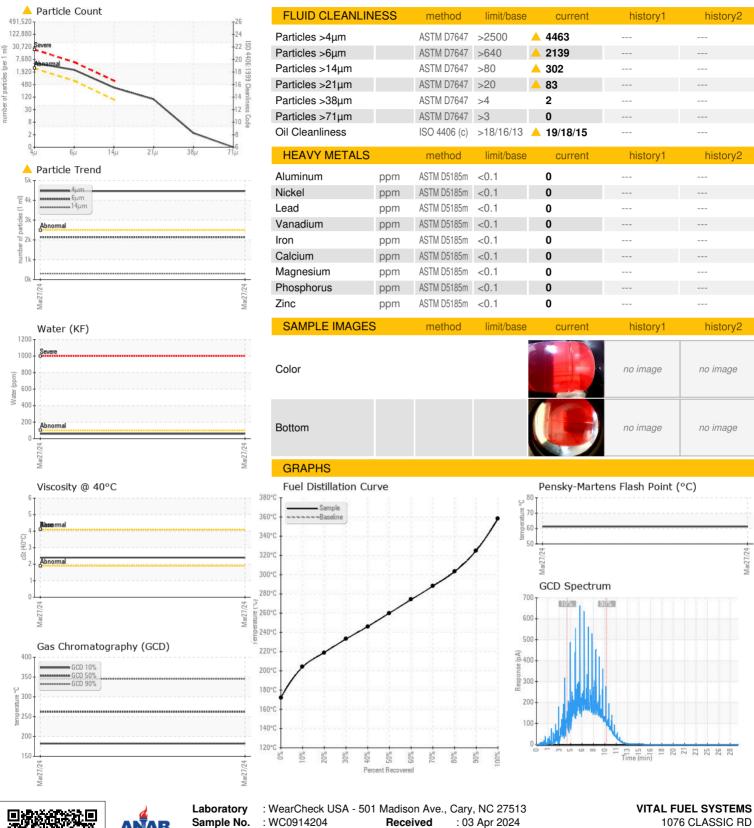
Fuel Condition

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

Client Info WC0914204							
Client Info	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info ABNORMAL Client Info ABNORMAL Client Info ABNORMAL Client Info ABNORMAL Client Info Client	Sample Number		Client Info		WC0914204		
PHYSICAL PROPERTIES method limit/base current history1 history2 history3 history3 history4	Sample Date		Client Info		27 Mar 2024		
PHYSICAL PROPERTIES	Machine Age	hrs	Client Info		0		
Fuel Color	Sample Status				ABNORMAL		
ASTM Color	PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	Fuel Color	text	*Visual Screen		Red		
SULFUR CONTENT method limit/base current history1 history2	ASTM Color	scalar	*ASTM D1500		L4.0		
SULFUR CONTENT method limit/base current history1 history2 Sulfur ppm ASTM D5185m 0 Sulfur (UVF) ppm ASTM D5453 9 DISTILLATION method limit/base current history1 history2 Initial Boiling Point °C ASTM D86 172 10% Distill Point °C ASTM D86 194 10% Distill Point °C ASTM D86 204 10% Distill Point °C ASTM D86 211 20% Distill Point °C ASTM D86 233 40% Distill Point °C ASTM D86 233 40% Distill Point °C ASTM D86 260 50% Distill Point °C ASTM D86 274 80% Distill Point °C	Visc @ 40°C	cSt	ASTM D445	4.1	2.4		
Sulfur ppm ASTM D5185m Q Sulfur (UVF) ppm ASTM D5453 Q Sulfur (UVF) ppm ASTM D5453 Q Sulfur (UVF) ppm ASTM D5453 Q Sulfur (UVF) ppm ASTM D5453 Q Sulfur (UVF) ppm ASTM D5453 Q Sulfur (UVF) ppm ASTM D5185m C.1 Q Q Sulfur (UVF) ppm ASTM D5185m C.1 Q Q Sulfur (UVF) ppm ASTM D5185m C.1 Q Q Sulfur (UVF) ppm ASTM D5185m C.1 Q Q	Pensky-Martens Flash Point	°C	*PMCC Calculated		61.3		
DISTILLATION	SULFUR CONTE	NT	method	limit/base	current	history1	history2
DISTILLATION	Sulfur	ppm	ASTM D5185m		0		
DISTILLATION	Sulfur (UVF)		ASTM D5453				
Initial Boiling Point	` ,		mathad	limit/booo	o urrant	historyd	history.0
59% Distillation Point °C ASTM D86 194 10% Distill Point °C ASTM D86 204 15% Distillation Point °C ASTM D86 211 20% Distill Point °C ASTM D86 219 30% Distill Point °C ASTM D86 233 40% Distill Point °C ASTM D86 246 50% Distill Point °C ASTM D86 260 60% Distill Point °C ASTM D86 274 80% Distill Point °C ASTM D86 303 80% Distill Point °C ASTM D86 314 90% Distill Point °C ASTM D86 343 90% Distillation Point °C ASTM D86 343 90% Distillation Point °C	DISTILLATION		method	imivbase		nistory i	nistory2
10% Distill Point	Initial Boiling Point		ASTM D86				
15% Distillation Point °C	5% Distillation Point		ASTM D86		194		
20% Distill Point	10% Distill Point	°C	ASTM D86		204		
30% Distill Point °C ASTM D86 233	15% Distillation Point	°C	ASTM D86		211		
40% Distill Point	20% Distill Point	°C	ASTM D86		219		
260	30% Distill Point	°C	ASTM D86		233		
274	40% Distill Point	°C	ASTM D86		246		
288	50% Distill Point	°C	ASTM D86		260		
B0% Distill Point	60% Distill Point	°C	ASTM D86		274		
314 314 315 325 325 325 325 325 325 325 325 325 325 325 325 325 325 325 325 325 325 325 325 325 325 325 325 325 325 325 325	70% Distill Point	°C	ASTM D86		288		
90% Distill Point	80% Distill Point	°C	ASTM D86		303		
Section Sect	85% Distillation Point	°C	ASTM D86		314		
IGNITION QUALITY	90% Distill Point	°C	ASTM D86		325		
IGNITION QUALITY method limit/base current history1 history2	95% Distillation Point	°C	ASTM D86		343		
API Gravity ASTM D7777 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 1 CONTAMINANTS Method limit/base current history1 history2 Silicon ppm ASTM D5185m <0.1 0 CONTAMINANTS Method limit/base current history1 history2 Silicon ppm ASTM D5185m <0.1 0	Final Boiling Point	°C	ASTM D86		358		
Cetane Index ASTM D4737 <40.0	IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m <1.0	API Gravity		ASTM D7777		37		
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 0.005 ppm Water ppm ASTM D6304 <500 59 % Gasoline % *In-House <0.50 0.0	Cetane Index		ASTM D4737	<40.0	49		
Sodium ppm ASTM D5185m <0.1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m <0.1 0 Water % ASTM D6304 <0.05 0.005 opm Water ppm ASTM D6304 <500 59 % Gasoline % *In-House <0.50 0.0	Silicon	ppm	ASTM D5185m	<1.0	0		
Water % ASTM D6304 <0.05 0.005	Sodium	ppm	ASTM D5185m	<0.1	1		
oppm Water ppm ASTM D6304 <500 59 % Gasoline *In-House <0.50 0.0	Potassium	ppm	ASTM D5185m	<0.1	0		
% Gasoline	Water	%	ASTM D6304	< 0.05	0.005		
	ppm Water	ppm	ASTM D6304	<500	59		
% Biodiesel % *In-House <20.0 0.0	% Gasoline	%	*In-House	< 0.50	0.0		
	% Biodiesel	%	*In-House	<20.0	0.0		



FUEL REPORT





Certificate 12367

Sample No.

Lab Number : 06138199 Unique Number: 10963007

: WC0914204

Received **Tested** Diagnosed

: 15 Apr 2024

: 15 Apr 2024 - Doug Bogart

Test Package : DF-2 (Additional Tests: Fuel, Screen) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

service@vitalfuelsystems.com T: (919)629-8180

Report Id: VITAPE [WUSCAR] 06138199 (Generated: 04/15/2024 21:52:51) Rev: 1

Contact/Location: SERVICE ? - VITAPE

APEX, NC

US 27539

Contact: SERVICE

F: (919)303-7399