

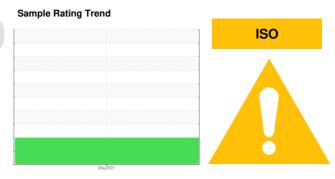
FUEL REPORT

Machine Id

KIOTI Randy (S/N VVF100337)

Component Diesel Fuel

{not provided} (--- GAL)



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.

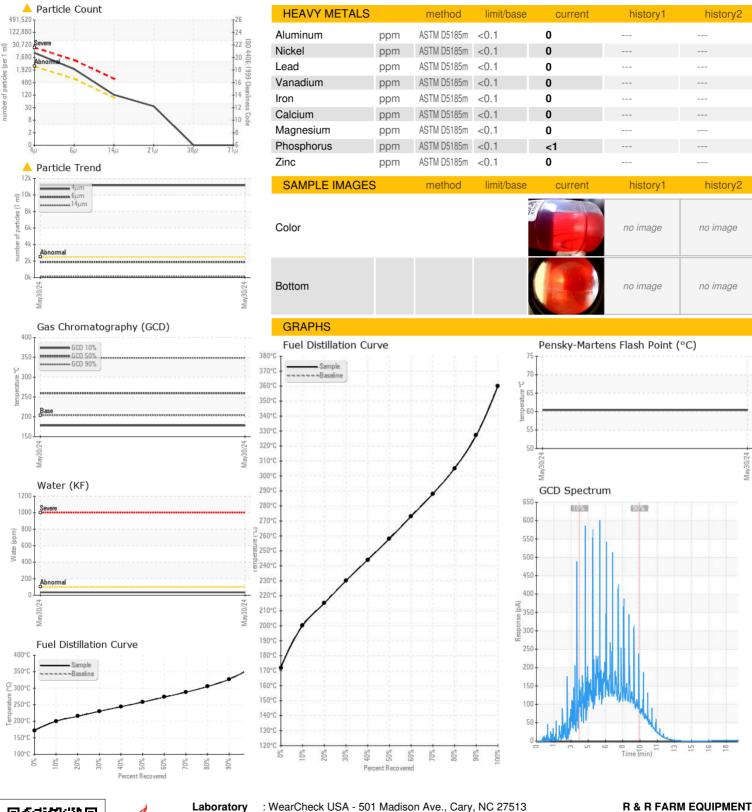
Fuel Condition

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

Sample Date Name							
Client Info	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age Agroup Sample Status Name	Sample Number		Client Info		KT0001501		
PHYSICAL PROPERTIES	Sample Date		Client Info		30 May 2024		
### PHYSICAL PROPERTIES method limit/base current history1 history2 ### ASTM Color scalar 'ASTM D1500	Machine Age	hrs	Client Info		10		
ASTM Color Scalar "ASTM D1500	Sample Status				ABNORMAL		
Pensky-Martens Flash Point	PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
SULFUR CONTENT method limit/base current history1 history2 Sulfur ppm ASTM D5185m 0 Sulfur (UVF) ppm ASTM D6453 7 DISTILLATION method limit/base current history1 history2 Initial Boiling Point °C ASTM D86 191 10% Distill Point °C ASTM D86 200 10% Distill Point °C ASTM D86 208 20% Distill Point °C ASTM D86 208 20% Distill Point °C ASTM D86 230 20% Distill Point °C ASTM D86 244 20% Distill Point °C ASTM D86 258 20% Distill Point °C ASTM D86 305 20% Distill Point °C AST	ASTM Color	scalar	*ASTM D1500		L4.5		
Sulfur ppm ASTM D5453 7 DISTILLATION method limit/base current history1 history2 Initial Boiling Point °C ASTM D86 172 5% Distillation Point °C ASTM D86 191 15% Distill Point °C ASTM D86 200 20% Distill Point °C ASTM D86 208 20% Distill Point °C ASTM D86 230 30% Distill Point °C ASTM D86 230 20% Distill Point °C ASTM D86 258 50% Distill Point °C ASTM D86 273 80% Distill Point °C ASTM D86 305 80% Distill Point °C ASTM D86 316 99% Distill Point °C <	Pensky-Martens Flash Point	°C	*PMCC Calculated		60.4		
DISTILLATION	SULFUR CONTE	NT	method	limit/base	current	history1	history2
DISTILLATION	Sulfur	ppm	ASTM D5185m		0		
Initial Boiling Point	Sulfur (UVF)	ppm	ASTM D5453		7		
5% Distillation Point	DISTILLATION		method	limit/base	current	history1	history2
10% Distill Point	Initial Boiling Point	°C	ASTM D86		172		
15% Distillation Point °C ASTM D86 208	5% Distillation Point	°C	ASTM D86		191		
20% Distill Point	10% Distill Point	°C	ASTM D86		200		
30% Distill Point	15% Distillation Point	°C	ASTM D86		208		
40% Distill Point	20% Distill Point	°C	ASTM D86		215		
Some Distill Point °C ASTM D86 258	30% Distill Point	°C	ASTM D86		230		
Serial Point Poi	40% Distill Point	°C	ASTM D86		244		
Company Comp	50% Distill Point	°C	ASTM D86		258		
Solution	60% Distill Point	°C	ASTM D86		273		
35% Distillation Point °C ASTM D86 316 30% Distill Point °C ASTM D86 327 35% Distillation Point °C ASTM D86 346 Final Boiling Point °C ASTM D86 360 IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D7777 39 Cetane Index ASTM D4737 <40.0	70% Distill Point	°C	ASTM D86		288		
327 327 35% Distillation Point °C ASTM D86 346	30% Distill Point	°C	ASTM D86		305		
346 Final Boiling Point °C ASTM D86 360 Final Boiling Point °C ASTM D86 360 GNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D7777 39 Cetane Index ASTM D4737 <40.0 52 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m <1.0 <1 Potassium ppm ASTM D5185m <0.1 <1 Potassium ppm ASTM D5185m <0.1 0 Potassium ppm ASTM D6304 <0.05 0.003 Popm Water % ASTM D6304 <500 35 Popm Water ppm ASTM D6304 <500 35 Popm Water ppm ASTM D6304 <500 0.0 Popm Water % *In-House <0.50 0.0 Popm Boiline % *In-House <20.0 0.0 Popm CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >2500 11171 Particles >6μm ASTM D7647 >640 1874 Particles >14μm ASTM D7647 >80 110 Particles >21μm ASTM D7647 >4 0 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0 Particles >71μm ASTM D7647 >4 0 Particles >71μm ASTM D76	35% Distillation Point	°C	ASTM D86		316		
Final Boiling Point	90% Distill Point	°C	ASTM D86		327		
IGNITION QUALITY method limit/base current history1 history2	95% Distillation Point	°C	ASTM D86		346		
API Gravity Cetane Index ASTM D4737 <40.0 52 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m <1.0 <1 Sodium ppm ASTM D5185m <0.1 <1 Potassium ppm ASTM D5185m <0.1 0 Potassium ppm ASTM D5185m <0.1 0 Water % ASTM D6304 <0.05 0.003 sppm Water ppm ASTM D6304 <500 35 % Gasoline % *In-House <0.50 0.0 % Biodiesel % *In-House <20.0 0.0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >2500 11171 Particles >6μm ASTM D7647 >640 1874 Particles >14μm ASTM D7647 >80 110 Particles >21μm ASTM D7647 >20 31 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0	Final Boiling Point	°C	ASTM D86		360		
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		39		
Silicon ppm ASTM D5185m <1.0 <1 Sodium ppm ASTM D5185m <0.1 <1 Potassium ppm ASTM D5185m <0.1 0 Water % ASTM D6304 <0.05 0.003 ppm ASTM D6304 <500 35 % Gasoline % *In-House <0.50 0.0 % Biodiesel % *In-House <20.0 0.0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >2500 11171 Particles >6μm ASTM D7647 >640 1874 Particles >21μm ASTM D7647 >20 31 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0 Particles ATTM D7647	Cetane Index		ASTM D4737	<40.0	52		
Sodium ppm ASTM D5185m <0.1 <1 Potassium ppm ASTM D5185m <0.1 0 Water % ASTM D6304 <0.05 0.003 ppm ASTM D6304 <500 35 % Gasoline % *In-House <0.50 0.0 % Biodiesel % *In-House <20.0 0.0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >2500 11171 Particles >6μm ASTM D7647 >640 1874 Particles >14μm ASTM D7647 >80 110 Particles >21μm ASTM D7647 >20 31 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0 Particles ASTM D7647 >3 0 Particles ASTM D7647 >3	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m < 0.1 0 Water % ASTM D6304 < 0.05 0.003 opm Water ppm ASTM D6304 < 500 35 % Gasoline % *In-House < 0.50 0.0 % Biodiesel % *In-House < 20.0 0.0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >2500 11171 Particles >6μm ASTM D7647 >640 1874 Particles >21μm ASTM D7647 >20 31 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0	Silicon	ppm	ASTM D5185m	<1.0	<1		
Water % ASTM D6304 <0.05 0.003 opm Water ppm ASTM D6304 <500	Sodium	ppm	ASTM D5185m	< 0.1	<1		
Opm Water ppm ASTM D6304 <500 35 % Gasoline % *In-House <0.50	Potassium	ppm	ASTM D5185m	< 0.1	0		
% Gasoline % *In-House <0.50 0.0	Water	%	ASTM D6304	< 0.05	0.003		
% Biodiesel % *In-House <20.0 0.0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >2500 ▲ 11171 Particles >6μm ASTM D7647 >640 ▲ 1874 Particles >14μm ASTM D7647 >80 110 Particles >21μm ASTM D7647 >20 31 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0 Particles >71μm ASTM D7647 >3 0	opm Water	ppm	ASTM D6304	< 500	35		
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >2500 11171 Particles >6μm ASTM D7647 >640 1874 Particles >14μm ASTM D7647 >80 110 Particles >21μm ASTM D7647 >20 31 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0	% Gasoline	%	*In-House	< 0.50	0.0		
Particles >4μm ASTM D7647 >2500 ▲ 11171 Particles >6μm ASTM D7647 >640 ▲ 1874 Particles >14μm ASTM D7647 >80 ■ 110 Particles >21μm ASTM D7647 >20 ■ 31 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0	% Biodiesel	%	*In-House	<20.0	0.0		
Particles >6μm ASTM D7647 >640 ▲ 1874 Particles >14μm ASTM D7647 >80 110 Particles >21μm ASTM D7647 >20 31 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >14μm ASTM D7647 >80 110 Particles >21μm ASTM D7647 >20 31 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0	Particles >4µm		ASTM D7647	>2500	<u> </u>		
Particles >21μm ASTM D7647 >20 31 Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0	Particles >6µm		ASTM D7647	>640	1874		
Particles >38μm ASTM D7647 >4 0 Particles >71μm ASTM D7647 >3 0	Particles >14µm		ASTM D7647	>80	110		
Particles >71μm ASTM D7647 >3 0	Particles >21µm		ASTM D7647	>20	9 31		
	Particles >38µm		ASTM D7647	>4	0		
Oil Cleanliness ISO 4406 (c) >18/16/13 🛕 21/18/14 >mitted By: RR FARM-PARTS	Particles >71µm		ASTM D7647	>3	0		
	Oil Cleanliness		ISO 4406 (c)	>18/16/13	<u> </u>	mitted By: RR I	ARM-PARTS



FUEL REPORT







Laboratory Sample No.

: KT0001501 Lab Number : 06220593 Unique Number : 11098790

Received : 25 Jun 2024 **Tested** : 28 Jun 2024 Diagnosed

: 28 Jun 2024 - Doug Bogart

Test Package : DF-2 (Additional Tests: Fuel, Screen) Certificate 12367 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)

R & R FARM EQUIPMENT

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