

FUEL REPORT

Sample Rating Trend

ISO

KIOTI CK4020CHSE PA4EA0087

Diesel Fuel Fluid NOT GIVEN (--- 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.

Sample Date Client Info 22 Sep 2023 Machine Age hrs Client Info 21 PHYSICAL PROPERTIES method limit/base current history1 Specific Gravity 'ASTM D1298 0.852 Specific Gravity 'ASTM D1298 0.852 ASTM Color scalar 'ASTM D1500 L4.0 Suffur Color scalar 'ASTM D445 2.57 Sulfur CONTENT method limit/base current history1 history2 Sulfur (UVF) ppm ASTM D5653 0 9 DISTILLATION method limit/base current history1 history2 Sulfur (UVF) ppm ASTM D86 161 DISTILLATION method limit/base current history1 history2 Sulfur (UVF) ppm					Sep2023		
Sample Date Client Info 22 Sep 2023 Machine Age hrs Client Info 21 PHYSICAL PROPERTIES method limit/base current history1 history2 Specific Gravity 'ASTM D1288 0.852 Specific Gravity 'ASTM D1288 0.852 Specific Gravity 'ASTM D1288 0.852 ASTM Color scalar 'ASTM D445 2.57 Sulfur Contrent method limit/base current history1 history2 Sulfur (UVF) ppm ASTM D5655 0 DISTILLATION method limit/base current history1 history2 Sulfur (UVF) ppm ASTM D86 161 DISTILLATION method limit/base current history1 history2 <th>SAMPLE INFORM</th> <th>IATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
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B0% Distill Point °C ASTM D86 304 85% Distillation Point °C ASTM D86 312 90% Distill Point °C ASTM D86 324 95% Distillation Point °C ASTM D86 343 95% Distillation Point °C ASTM D86 355 95% Distillation Residue % ASTM D86 1.4 Distillation Loss % ASTM D86 0.8 IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D7777 34.6 Contraminant ppm ASTM D4737 <40.0	60% Distill Point	°C	ASTM D86		276		
85% Distillation Point °C ASTM D86 312 90% Distill Point °C ASTM D86 324 95% Distillation Point °C ASTM D86 343 95% Distillation Point °C ASTM D86 355 Distillation Residue % ASTM D86 1.4 Distillation Loss % ASTM D86 0.8 IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D7777 34.6 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m<	70% Distill Point	°C	ASTM D86		289		
90% Distill Point°CASTM D8632495% Distillation Point°CASTM D86343Final Boiling Point°CASTM D86355Distillation Residue%ASTM D861.4Distillation Loss%ASTM D860.8IGNITION QUALITYmethodlimit/basecurrenthistory1history2API GravityASTM D777734.6Cetane IndexASTM D4737<40.0	80% Distill Point	°C	ASTM D86		304		
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Final Boiling Point°CASTM D86355Distillation Residue%ASTM D861.4Distillation Loss%ASTM D860.8IGNITION QUALITYmethodlimit/basecurrenthistory1history2API GravityASTM D777734.6Cetane IndexASTM D4737<40.0	90% Distill Point	°C	ASTM D86		324		
Distillation Residue % ASTM D86 1.4 Distillation Loss % ASTM D86 0.8 IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D7777 34.6 Cetane Index ASTM D7777 34.6 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m <1.0	95% Distillation Point	°C	ASTM D86		343		
Distillation Loss%ASTM D860.8IGNITION QUALITYmethodlimit/basecurrenthistory1history2API GravityASTM D777734.6Cetane IndexASTM D4737<40.0	Final Boiling Point	°C	ASTM D86		355		
IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D7777 34.6 Cetane Index ASTM D7777 40.0 44.3 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m <1.0 0 Sodium ppm ASTM D5185m <0.1	Distillation Residue	%	ASTM D86		1.4		
API Gravity ASTM D7777 34.6 Cetane Index ASTM D4737 <40.0	Distillation Loss	%	ASTM D86		0.8		
Cetane Index ASTM D4737 <40.0	IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m <1.0	API Gravity		ASTM D7777		34.6		
Silicon ppm ASTM D5185m <1.0 0 Sodium ppm ASTM D5185m <0.1	Cetane Index		ASTM D4737	<40.0	44.3		
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 ppm Water ppm ASTM D6304 <500 50.5 % Gasoline % *In-House <0.50 0.0	Silicon	ppm	ASTM D5185m	<1.0	0		
Water % ASTM D6304 <0.05 0.005 ppm Water ppm ASTM D6304 <500	Sodium	ppm	ASTM D5185m	<0.1	2		
ppm Water ppm ASTM D6304 <500 50.5 % Gasoline % *In-House <0.50 0.0	Potassium	ppm	ASTM D5185m	<0.1	0		
% Gasoline % *In-House <0.50 0.0	Water	%	ASTM D6304	<0.05	0.005		
	ppm Water	ppm	ASTM D6304	<500	50.5		
% Biodiesel % *In-House <20.0 0.0	% Gasoline	%	*In-House	<0.50	0.0		
	% Biodiesel	%	*In-House	<20.0	0.0		



🔺 Particle Count

FUEL REPORT

A Particle Count 91,520 T	FLUID CLEANLI	NESS method	limit/base c	urrent history1	history2
22,880 -	⁺²⁴ _ Particles >4µm	ASTM D7647	>2500 🔺 282	29	
30,720 Severe	22 8	ASTM D7647		39	
7,680 Abnormal	Particles $>6\mu m$ Particles $>14\mu m$	ASTM D7647		3	
480	Particles >21µm	ASTM D7647	>20 🔺 52		
120-	-14 Particles >38um	ASTM D7647	>4 1		
30	Particles >71um	ASTM D7647	>3 0		
8	Oil Cleanliness			17/15	
0 4μ 6μ 14μ 21μ 38μ				urrent history1	history2
A Particle Trend	Aluminum	ppm ASTM D5185m			
3k	Nickel	ppm ASTM D5185m			
^{3k} ^{6μm} ^{6μm}	Lead	ppm ASTM D5185m			
 	Vanadium	ppm ASTM D5185m			
년 2k	Iron	ppm ASTM D5185m			
· 흔 1k	Calcium				
ē 1k	Magnesium				
Sep 22/23	EXIZE Phosphorus Zinc				
Water (KF)	SAMPLE IMAGE	S method	limit/base c	urrent history1	history2
1000 - Severe	Oslar				
800 -	Color		12	no image	no image
600					
200 - Abnormal	Dottom				no imore
	Bottom			no image	no image
Sm22/23	GRAPHS				(0.0)
	GRAPHS Fuel Distillation C	urve	70	ky-Martens Flash Point	(°C)
Sap 22/23	Fuel Distillation C	urve	్ల ⁷⁰	ky-Martens Flash Point	(°C)
Viscosity @ 40°C	Fuel Distillation C	urve	70	ky-Martens Flash Point	(°C)
Viscosity @ 40°C	Fuel Distillation C	urve	2 70 a 160 a 160 40	ky-Martens Flash Point	
Viscosity @ 40°C	Fuel Distillation C	urve	2 70 a 160 a 160 40	ky-Martens Flash Point	
Viscosity @ 40°C	Fuel Distillation C	urve	2, ⁷⁰ angeo tago tago tago tago tago tago tago tag	ky-Martens Flash Point	
Viscosity @ 40°C	Fuel Distillation C	urve	2 70 a 160 a 160 40	ky-Martens Flash Point	
Viscosity @ 40°C	Fuel Distillation C	urve	2 70 a 160 a 160 40	ky-Martens Flash Point	
Viscosity @ 40°C	Fuel Distillation C	urve	2 70 a 160 a 160 40	ky-Martens Flash Point	
Viscosity @ 40°C	Fuel Distillation C Sorc Sample 10°C Sorc Sample 10°C Sorc Sample 10°C Sorc Sorc Sorc Sorc Sorc Sorc Sorc Sorc	urve	2 70 a 160 a 160 40	ky-Martens Flash Point	
Viscosity @ 40°C	Fuel Distillation C	urve	2 70 a 160 a 160 40	ky-Martens Flash Point	
Viscosity @ 40°C	Fuel Distillation C Sorc Sample 10°C Sorc Sample 10°C Sorc Sample 10°C Sorc Sorc Sorc Sorc Sorc Sorc Sorc Sorc	urve	2 70 a 160 a 160 40	ky-Martens Flash Point	
Viscosity @ 40°C	Fuel Distillation C	urve	2 70 a 160 a 160 40	ky-Martens Flash Point	
Viscosity @ 40°C	Fuel Distillation C	urve	2 70 a 160 a 160 40	ky-Martens Flash Point	
Viscosity @ 40°C	Fuel Distillation C 30°C 30°C 30°C 20°C 30°C	urve	2 70 a 160 a 160 40	ky-Martens Flash Point	
Viscosity @ 40°C	Fuel Distillation C 30°C 50°	urve	2 70 a 160 a 160 40	ky-Martens Flash Point	
Viscosity @ 40°C	Fuel Distillation C Sorc Sample 10°C Sorc Sorc Sorc Sample 10°C Sorc Sorc Sorc Sorc Sorc Sorc Sorc Sorc		entreadure co	ky-Martens Flash Point	
Viscosity @ 40°C	Fuel Distillation C 30°	urve	2 70 a 160 a 160 40	ky-Martens Flash Point	
Viscosity @ 40°C	Fuel Distillation C Sorc Sor	ercent Recovered	908 100%		- + cz/zz das
Viscosity @ 40°C	Fuel Distillation C Sorce So	ercent Recovered 501 Madison Ave., Ca	908 100%	LITTLE TRACTOR	& EQUIPMENT
Viscosity @ 40°C	Fuel Distillation C Sort Sor	Free Recovered 501 Madison Ave., Ca Received : 25 Diagnosed : 02	ary, NC 27513 Sep 2023 Oct 2023	LITTLE TRACTOR	& EQUIPMENT VETERANS DR ARRISBURG, IL
Viscosity @ 40°C	Fuel Distillation C Sorc 30°C 30°C 30°C 30°C 30°C 30°C 30°C 30°C 30°C 30°C 30°C 30°C 30°C 30°C 30°C 30°C 30°C 30°C 40°C 30°C 30°C 30°C 30°C 30°C 40°C 30°C 30°C 40°C 30°C 40°C 30°C 40°	501 Madison Ave., Ca Received : 25 Diagnosed : 02 Diagnostician : Dou	ary, NC 27513 Sep 2023	LITTLE TRACTOR 11 H/	& EQUIPMENT VETERANS DF ARRISBURG, IL US 62946
Viscosity @ 40°C	Fuel Distillation C Fuel Distillation C 30°C	501 Madison Ave., Ca Received 25 Diagnosed 02 Diagnostician Dou rests: Screen)	ary, NC 27513 Sep 2023 Oct 2023 ug Bogart	LITTLE TRACTOR 11 H/ Co	& EQUIPMENT VETERANS DR ARRISBURG, IL US 62946 ntact: PATRICK
Viscosity @ 40°C	Fuel Distillation C Fuel Distillation C 30°C	501 Madison Ave., Ca Received 25 Diagnosed 02 Diagnostician Dou rests: Screen) vice at 1-800-237-1363	ary, NC 27513 Sep 2023 Oct 2023 ug Bogart 9.	LITTLE TRACTOR 11 H/ Co patrick@	& EQUIPMENT VETERANS DF ARRISBURG, II US 62946 ntact: PATRICP Dittletractor.com
Viscosity @ 40°C	Fuel Distillation C Fuel Distillation C 30°C	501 Madison Ave., Ca Received : 25 Diagnosed : 02 Diagnostician : Dou rests: Screen) vice at 1-800-237-1363 17025 scope of accred	ary, NC 27513 Sep 2023 Oct 2023 ug Bogart 9. ditation.	LITTLE TRACTOR 11 H/ Co patrick@ T	& EQUIPMENT VETERANS DF ARRISBURG, IL US 62946

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Contact/Location: PATRICK - LITHAR