

FUEL REPORT

Sample Rating Trend

ISO

KIOTI DK5510 YP8703123 Component

Diesel Fuel 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 10 Oct 2023 Machine Age hrs Client Info 320 PHYSICAL PROPERTIES method limit/base current history1 Specific Gravity 'ASTM D1288 current history2 Specific Gravity 'ASTM D1288 current history1 ASTM Color scalar 'ASTM D1500 L4.0 SULFUR CONTENT method limit/base current history1 history2 Sulfur (UVF) ppm ASTM D5558 0 9 DISTILLATION method limit/base current history1 history2 Sulfur (UVF) ppm ASTM D5558 0 9 Sulfur NON °C ASTM D86 146 Sulfur NON °C ASTM D86 217					Oct2023		
Sample Date Client Info 10 Oct 2023 Machine Age hrs Client Info 320 PHYSICAL PROPERTIES method limit/base current history1 history2 Specific Gravity 'ASTM D1280 0.843 Specific Gravity 'ASTM D1280 0.843 Specific Gravity 'ASTM D1280 L4.0 ASTM Color scalar 'ASTM D445 2.59 Sulfur Color scalar 'ASTM D445 2.59 Sulfur (UVF) ppm ASTM D5165m 0 Sulfur (UVF) ppm ASTM D565 0 DISTILLATION method limit/base current history1 history2 Sulfur (UVF) ppm ASTM D66 192 DistilLATION C ASTM D86 207	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 320 PHYSICAL PROPERTIES method limit/base current history1 history2 Specific Gravity 'ATTM D1298 0.843 Specific Gravity 'ASTM D1050 L4.0 System Color scatt ASTM Color scatt SUGe @ 40°C cSt ASTM D445 2.59 SULFUR CONTENT method limit/base current history1 history2 Sulfur (UVF) pm ASTM D5185m 0 SUlfur (UVF) pm ASTM D5453 9 Sulfur (UVF) pm ASTM D5456 207 Sulfur (UVF) pm ASTM D86 216 217 Sulfur (UVF) pm ASTM D86 225 Sulfur (UVF) pm	Sample Number		Client Info		KT0000608		
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Silicon ppm ASTM D5185m <1.0 <1 Sodium ppm ASTM D5185m <0.1	Cetane Index		ASTM D4737	<40.0	48.8		
Sodium ppm ASTM D5185m <0.1	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m <0.1 <1 Water % ASTM D6304 <0.05 0.009 ppm Water ppm ASTM D6304 <500 99.7 % Gasoline % *In-House <0.50 0.0	Silicon	ppm	ASTM D5185m	<1.0	<1		
Water % ASTM D6304 <0.05 0.009 ppm Water ppm ASTM D6304 <500	Sodium	ppm	ASTM D5185m	<0.1	0		
ppm Water ppm ASTM D6304 <500 99.7 % Gasoline % *In-House <0.50 0.0	Potassium	ppm	ASTM D5185m	<0.1	<1		
% Gasoline % *In-House <0.50 0.0	Water	%	ASTM D6304	< 0.05	0.009		
	ppm Water	ppm	ASTM D6304	<500	99.7		
% Biodiesel % *In-House <20.0 1.2	% Gasoline	%	*In-House	<0.50	0.0		
	% Biodiesel	%	*In-House	<20.0	1.2		



FUEL REPORT

Particles S-fum Particles S-fu	т26	FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles - Selim Particles - S	-24	Particles >4µm	ASTM D7647 >	>2500	8928		
Periodes -38µm ASTM 07647 - 3-4 T Periodes -38µm ASTM 07647 - 3-4 T Periodes -38µm ASTM 07647 - 3-4 T Periodes -38µm ASTM 07647 - 3-4 T Periodes -38µm ASTM 07546 - 3-6 T Periodes -38µm ASTM 05185 - 0.1 Aluminum ppm ASTM 05185 - 0.1 Aluminum ppm ASTM 05185 - 0.1 Calcium ppm ASTM 05185 - 0	-22		ASTM D7647 >	>640	4134		
Periodes -38µm ASTM 07647 - 3-4 T Periodes -38µm ASTM 07647 - 3-4 T Periodes -38µm ASTM 07647 - 3-4 T Periodes -38µm ASTM 07647 - 3-4 T Periodes -38µm ASTM 07546 - 3-6 T Periodes -38µm ASTM 05185 - 0.1 Aluminum ppm ASTM 05185 - 0.1 Aluminum ppm ASTM 05185 - 0.1 Calcium ppm ASTM 05185 - 0	120 18				799		
Particles -38µm ASTN D767 - 3-4 7 Particles -38µm ASTN D767 - 3-4 7 OI Cleanliness ISO 4006 (r) -18/16/13 2019/17 HEAVY METALS method im/bbase current history1 Aurinnum ppm ASTN D587 -0.1 0 Viceosity (r) Viceosity (r) Vi	-16			>20	241		
Particles >71 µm Particles >7	14				7		
OIL Cleanliness ISO 4406 (c) >18/16/13 A 20/19/17 Auminum ppm ASTI/05186n <0.1	12		ASTM D7647	>3	1		
HEAVY METALS method Imitbase current history1 Auminum ppm ASTM0588 -0.1 0 Auminum ppm ASTM0588 -0.1 0 Model ppm ASTM0588 -0.1 0 Model ppm ASTM0588 -0.1 0 Maradium ppm ASTM0588 -0.1 0 Magnesium ppm ASTM0588 -0.1 0 Magnesium ppm ASTM0588 -0.1 0 Magnesium ppm ASTM0588 -0.1 0 Water (kf) Color Water (kf) Vescosity @ 40°C Vescosity @ 40°C					20/19/17		
Particle Trend Aluminum ppm ASTMD5156 - 0.1 2 Nickel ppm ASTMD5156 - 0.1 0 Variadium ppm ASTMD5156 - 0.1 0 Calcium ppm	214 384 714		()			la internet	la la tamu O
Image: Standard S							history2
Lead ppm ASTM D5158m <0.1 0 ···· Varadium ppm ASTM D5158m <0.1 0 ···· Calcium ppm ASTM D5158m <0.1 0 ···· The phosphorus ppm ASTM D5158m The phosphorus ppm ASTM D5158m							
Calcium ppm ASTMOSIBER -0.1 < 1 Magnesium ppm ASTMOSIBER -0.1 < 1 Phosphorus ppm ASTMOSIBER -0.1 0 Zinc ppm AST					-		
Image Calcium ppm KSTM 051858 -0.1 -1 Magnesium ppm KSTM 051858 -0.1 0 The prosphorus ppm KSTM 051858 -0.1 0 Zinc ppm KSTM 051858 -0.1 0 Image SAMPLE IMAGES method Imitbase current history1 Image Color Imitbase current history1 Imitbase current history1 Image GRAPHS Imitbase current history1 Imitbase Imitbase current history1 Image Imitbase Color Imitbase current history1 Imitbase Imitbase current history1 Image Imitbase Color Imitbase current history1 Imitbase Imitbase current history1 Image Imitbase Current Imitbase current history1 Imitbase current history1 Image Image Image Image Ima					-		
Image Calcium ppm KSTM 25155 -0.1 <1					-		
Magnesium ppm ASTM05185n e.0.1 e1 Phosphorus ppm ASTM05185n e.0.1 e1 Zinc ppm ASTM05185n e.0.1 e SAMPLE IMAGES method imitbase current history1 Color no image Bottom GRAPHS Fuel Distillation Curve Fuel Distillation Curve Fuel Distillation Curve Fuel Distillation Curve Fuel Distillation Curve Fuel Distillation Curve Fuel Distillation Curve Sample No. Sample No.	100000000000000000000000000000000000000				-		
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Water (kF) Water	200						
Color no image no image	1	Zinc ppm	ASTM D5185m <	<0.1	0		
Color no image no image Necosity @ 40°C Fuel Distillation Curve		SAMPLE IMAGES	method	limit/base	current	history1	history2
Viscosity @ 40°C							no image no image
Image: Sample No. Laboratory Sample No. Lab Number Used State Sta	netino2	GRAPHS			Pensky-Marte		-
Fuel Distillation Curve		50°C - Sample 10°C - Baseline		00 temberatrine	0ct10/23		Det 1073
Percent Recovered Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 TRI COUNT Sample No. : KT0000608 Received : 17 Oct 2023 12 Lab Number : 05982156 Diagnosed : 01 Nov 2023 CH Unique Number : 10699451 Diagnostician : Doug Bogart	rve P	20% 0% 0% 0% 0% 0% 0% 0% 0% 0%		100%			
To discuss this sample report, contact Customer Service at 1-800-237-1369.	Laboratory Sample No. Lab Number Unique Number Test Package o discuss this sample report,	: WearCheck USA - 501 Mac : KT0000608 Receive : 05982156 Diagno : 10699451 Diagno : DF-2 (Additional Tests: Sc contact Customer Service at 1	dison Ave., Cary ed : 17 Oc sed : 01 No stician : Doug reen) -800-237-1369.	ct 2023 ov 2023 9 Bogart		Contact: SERVI	JNTY SUPPLY 12069 RT 16 CHAFFEE, NY US 14030 CE MANAGEF (716)496-8859

Report Id: TRICHANY [WUSCAR] 05982156 (Generated: 11/01/2023 22:55:53) Rev: 1

Contact/Location: SERVICE MANAGER - TRICHANY