



FUEL REPORT

Sample Rating Trend

NORMAL



Machine Id
KIOTI DK5510HS Sherling DK5510HS (S/N PP8800099)

Component
Diesel Fuel
Fluid
Off-Road Diesel Fuel (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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 moderate amount of silt (particulates < 14 microns in size) 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 INFORMATION		method	limit/base	current	history 1	history 2
Sample Number	Client Info			KT0000590	---	---
Sample Date	Client Info			08 Jun 2023	---	---
Machine Age	hrs	Client Info		457	---	---
Sample Status				NORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history 1	history 2
Specific Gravity		*ASTM D1298		0.839	---	---
Fuel Color	text	*Visual Screen		Orang	---	---
ASTM Color	scalar	*ASTM D1500		L3.5	---	---
Visc @ 40°C	cSt	ASTM D445		2.53	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		59	---	---

SULFUR CONTENT		method	limit/base	current	history 1	history 2
Sulfur	ppm	ASTM D5185m		9	---	---
Sulfur (UVF)	ppm	ASTM D5453		9	---	---

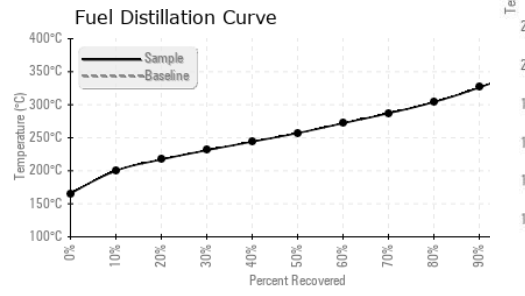
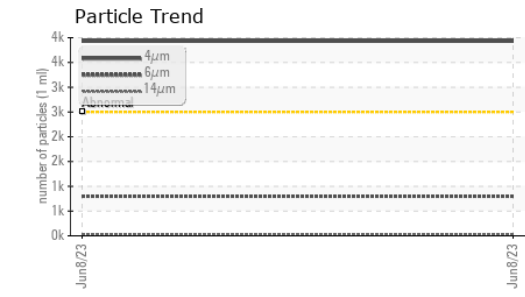
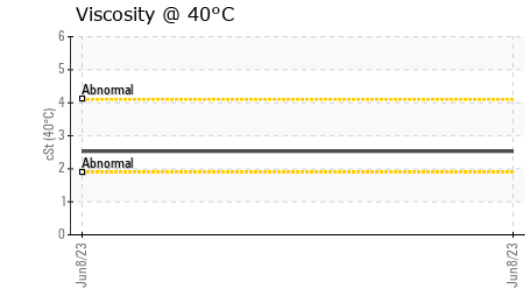
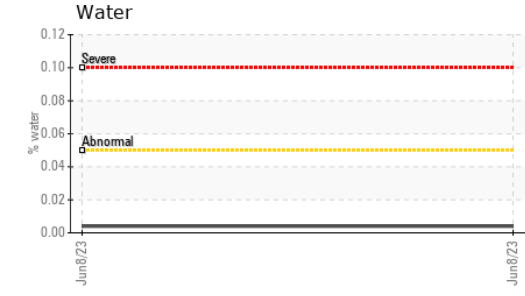
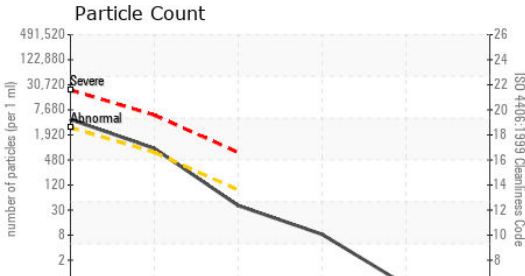
DISTILLATION		method	limit/base	current	history 1	history 2
Initial Boiling Point	°C	ASTM D86		165	---	---
5% Distillation Point	°C	ASTM D86		190	---	---
10% Distill Point	°C	ASTM D86		200	---	---
15% Distillation Point	°C	ASTM D86		210	---	---
20% Distill Point	°C	ASTM D86		217	---	---
30% Distill Point	°C	ASTM D86		231	---	---
40% Distill Point	°C	ASTM D86		244	---	---
50% Distill Point	°C	ASTM D86		257	---	---
60% Distill Point	°C	ASTM D86		272	---	---
70% Distill Point	°C	ASTM D86		287	---	---
80% Distill Point	°C	ASTM D86		304	---	---
85% Distillation Point	°C	ASTM D86		314	---	---
90% Distill Point	°C	ASTM D86		326	---	---
95% Distillation Point	°C	ASTM D86		344	---	---
Final Boiling Point	°C	ASTM D86		352	---	---
Distillation Residue	%	ASTM D86		1.4	---	---
Distillation Loss	%	ASTM D86		0.8	---	---

IGNITION QUALITY		method	limit/base	current	history 1	history 2
API Gravity		ASTM D7777		37.2	---	---
Cetane Index		ASTM D4737	<40.0	48.2	---	---

CONTAMINANTS		method	limit/base	current	history 1	history 2
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	0.004	---	---
ppm Water	ppm	ASTM D6304	<500	47.1	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	0.0	---	---



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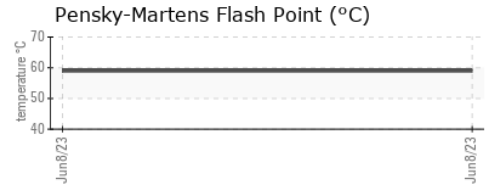
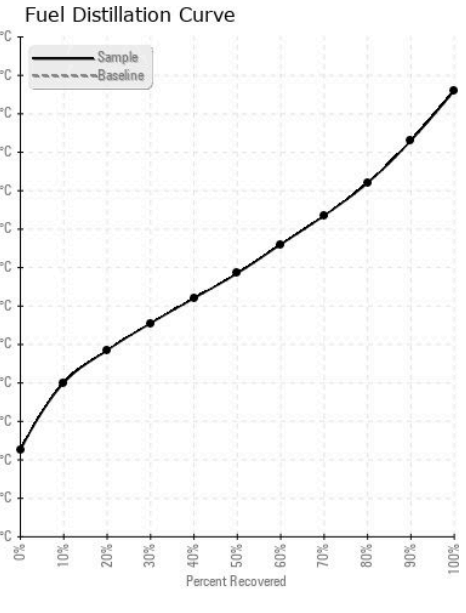


FLUID CLEANLINESS	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647	>2500	3930	---	---
Particles >6µm	ASTM D7647	>640	799	---	---
Particles >14µm	ASTM D7647	>80	34	---	---
Particles >21µm	ASTM D7647	>20	7	---	---
Particles >38µm	ASTM D7647	>4	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	19/17/12	---	---

HEAVY METALS	method	limit/base	current	history 1	history 2
Aluminum	ppm	ASTM D5185m <0.1	0	---	---
Nickel	ppm	ASTM D5185m <0.1	<1	---	---
Lead	ppm	ASTM D5185m <0.1	0	---	---
Vanadium	ppm	ASTM D5185m <0.1	0	---	---
Iron	ppm	ASTM D5185m <0.1	<1	---	---
Calcium	ppm	ASTM D5185m <0.1	0	---	---
Magnesium	ppm	ASTM D5185m <0.1	<1	---	---
Phosphorus	ppm	ASTM D5185m <0.1	2	---	---
Zinc	ppm	ASTM D5185m <0.1	0	---	---

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KT0000590 **Received** : 15 Jun 2023
Lab Number : **05874728** **Diagnosed** : 22 Jun 2023
Unique Number : 10519831 **Diagnostician** : Doug Bogart
Test Package : DF-2 (Additional Tests: Screen)

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Certificate L2367
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - 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)