



FUEL REPORT

Sample Rating Trend

NORMAL



Machine Id
KIOTI CK2610 47078 (S/N XL9502864)

Component
Diesel Fuel
Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 low-sulfur diesel fuel.

Corrosion

All metal levels are normal indicating no corrosion in the system.

Contaminants

The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel. The amount and size of particulates present in the system are acceptable.

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			KT0000497	---	---
Sample Date	Client Info			27 Sep 2023	---	---
Machine Age	hrs	Client Info		46	---	---
Sample Status				NORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.824	---	---
Fuel Color	text	*Visual Screen		Yellow	---	---
ASTM Color	scalar	*ASTM D1500		L2.5	---	---
Visc @ 40°C	cSt	ASTM D445		2.3	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		54	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0	---	---
Sulfur (UVF)	ppm	ASTM D5453		17	---	---

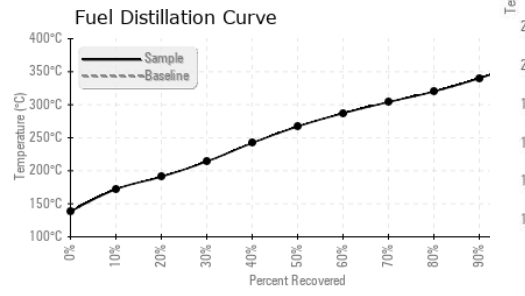
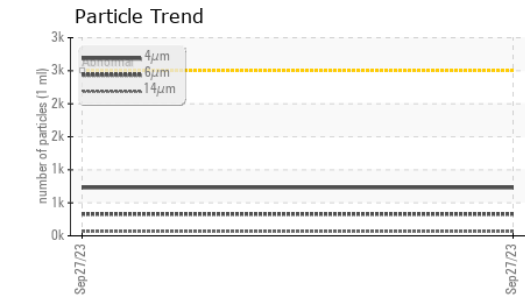
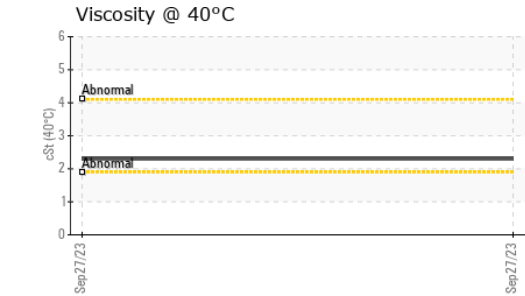
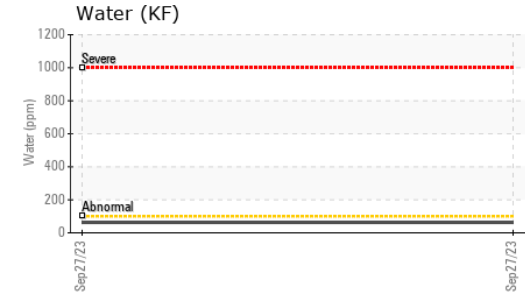
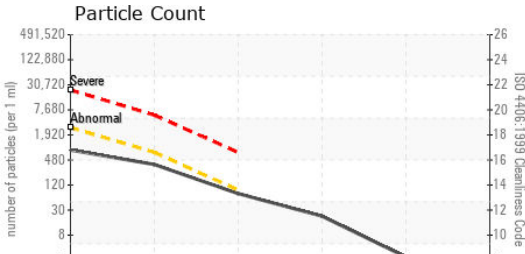
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		138	---	---
5% Distillation Point	°C	ASTM D86		161	---	---
10% Distill Point	°C	ASTM D86		172	---	---
15% Distillation Point	°C	ASTM D86		181	---	---
20% Distill Point	°C	ASTM D86		191	---	---
30% Distill Point	°C	ASTM D86		214	---	---
40% Distill Point	°C	ASTM D86		242	---	---
50% Distill Point	°C	ASTM D86		267	---	---
60% Distill Point	°C	ASTM D86		287	---	---
70% Distill Point	°C	ASTM D86		304	---	---
80% Distill Point	°C	ASTM D86		320	---	---
85% Distillation Point	°C	ASTM D86		329	---	---
90% Distill Point	°C	ASTM D86		340	---	---
95% Distillation Point	°C	ASTM D86		356	---	---
Final Boiling Point	°C	ASTM D86		363	---	---
Distillation Residue	%	ASTM D86		1.4	---	---
Distillation Loss	%	ASTM D86		0.8	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		40.2	---	---
Cetane Index		ASTM D4737	<40.0	54.3	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	4	---	---
Sodium	ppm	ASTM D5185m	<0.1	0	---	---
Potassium	ppm	ASTM D5185m	<0.1	0	---	---
Water	%	ASTM D6304	<0.05	0.006	---	---
ppm Water	ppm	ASTM D6304	<500	63.2	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	2.3	---	---



FUEL REPORT

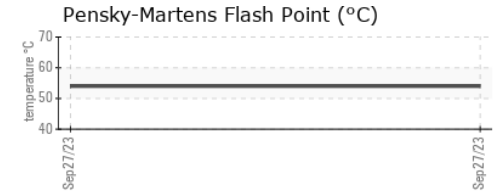
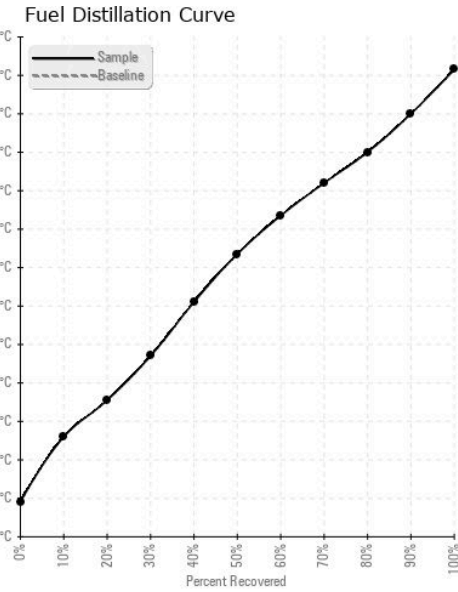


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	730	---	---
Particles >6µm	ASTM D7647	>640	329	---	---
Particles >14µm	ASTM D7647	>80	66	---	---
Particles >21µm	ASTM D7647	>20	19	---	---
Particles >38µm	ASTM D7647	>4	2	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	17/16/13	---	---

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m <0.1	0	---	---
Nickel	ppm	ASTM D5185m <0.1	0	---	---
Lead	ppm	ASTM D5185m <0.1	0	---	---
Vanadium	ppm	ASTM D5185m <0.1	0	---	---
Iron	ppm	ASTM D5185m <0.1	0	---	---
Calcium	ppm	ASTM D5185m <0.1	5	---	---
Magnesium	ppm	ASTM D5185m <0.1	0	---	---
Phosphorus	ppm	ASTM D5185m <0.1	4	---	---
Zinc	ppm	ASTM D5185m <0.1	1	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KT0000497 **Received** : 27 Sep 2023
Lab Number : **05963171** **Diagnosed** : 10 Oct 2023
Unique Number : 10669722 **Diagnostician** : Doug Bogart
Test Package : DF-2 (Additional Tests: Screen)

SNYDERS TRACTOR AND EQUIPMENT
 174 CRABTREE RD
 CROSSVILLE, TN
 US 38571
 Contact: HEATH RANDOLPH
 heath.randolph@snyderstractor.com

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)