



FUEL REPORT

Sample Rating Trend



CONTAMINANT



Machine Id
KIOTI UW6900154

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

DIAGNOSIS

▲ Recommendation

We advise that you check for the source of gasoline entry.

Corrosion

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

▲ Contaminants

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

▲ Fuel Condition

The IBP (Initial Boiling Point) is lower than normal. The fuel is no longer serviceable due to the presence of contaminants. Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			KT0000484	---	---
Sample Date	Client Info			19 Apr 2023	---	---
Machine Age	hrs	Client Info		216	---	---
Sample Status				ABNORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.837	---	---
Fuel Color	text	*Visual Screen		Red	---	---
ASTM Color	scalar	*ASTM D1500		L4.5	---	---
Visc @ 40°C	cSt	ASTM D445		2.3	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0	---	---
Sulfur (UVF)	ppm	ASTM D5453		13	---	---

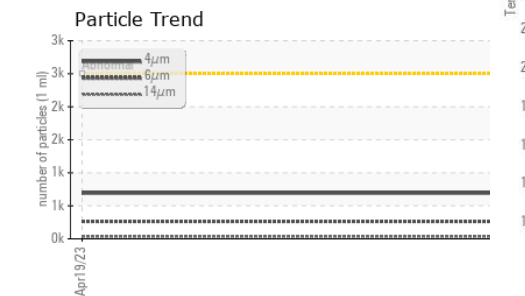
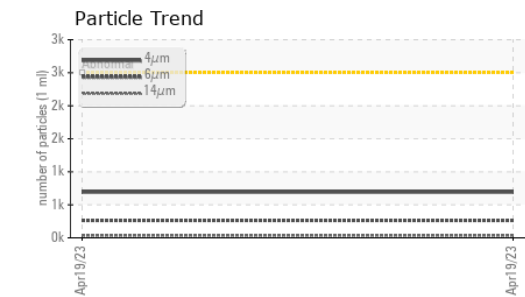
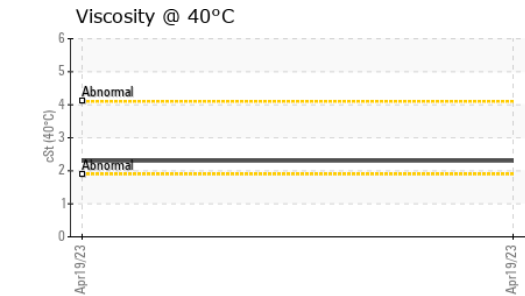
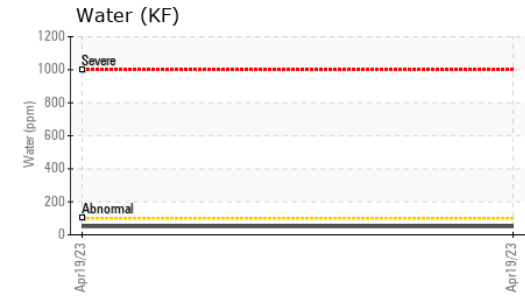
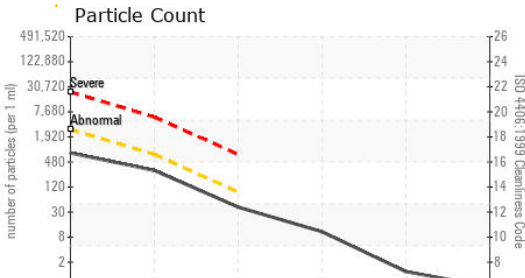
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		▲ 125	---	---
5% Distillation Point	°C	ASTM D86		176	---	---
10% Distill Point	°C	ASTM D86		192	---	---
15% Distillation Point	°C	ASTM D86		202	---	---
20% Distill Point	°C	ASTM D86		210	---	---
30% Distill Point	°C	ASTM D86		225	---	---
40% Distill Point	°C	ASTM D86		239	---	---
50% Distill Point	°C	ASTM D86		254	---	---
60% Distill Point	°C	ASTM D86		268	---	---
70% Distill Point	°C	ASTM D86		284	---	---
80% Distill Point	°C	ASTM D86		301	---	---
85% Distillation Point	°C	ASTM D86		311	---	---
90% Distill Point	°C	ASTM D86		323	---	---
95% Distillation Point	°C	ASTM D86		341	---	---
Final Boiling Point	°C	ASTM D86		347	---	---
Distillation Residue	%	ASTM D86		1.4	---	---
Distillation Loss	%	ASTM D86		0.4	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		37.6	---	---
Cetane Index		ASTM D4737	<40.0	47.8	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
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	0.005	---	---
ppm Water	ppm	ASTM D6304	<500	50.8	---	---
% Gasoline	%	*In-House	<0.50	▲ 2.6	---	---
% Biodiesel	%	*In-House	<20.0	0.0	---	---



FUEL REPORT

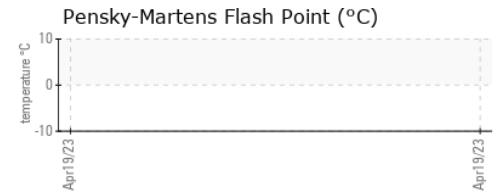
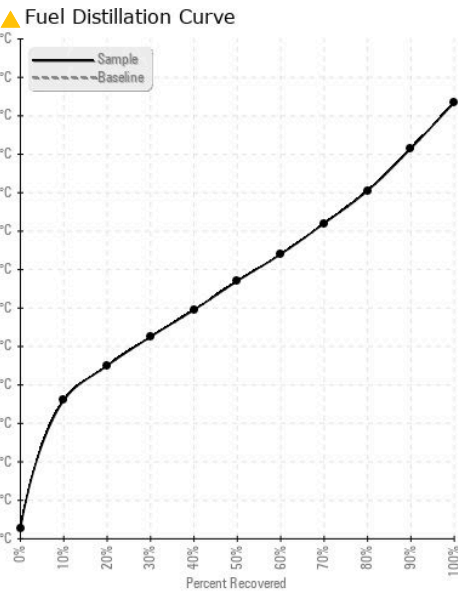


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	693	---	---
Particles >6µm	ASTM D7647	>640	264	---	---
Particles >14µm	ASTM D7647	>80	35	---	---
Particles >21µm	ASTM D7647	>20	9	---	---
Particles >38µm	ASTM D7647	>4	1	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	17/15/12	---	---

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	<1	---	---
Magnesium	ppm	ASTM D5185m <0.1	<1	---	---
Phosphorus	ppm	ASTM D5185m <0.1	0	---	---
Zinc	ppm	ASTM D5185m <0.1	0	---	---

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KT0000484 **Received** : 24 Apr 2023
Lab Number : **05828211** **Diagnosed** : 27 Apr 2023
Unique Number : 10441704 **Diagnostician** : Doug Bogart
Test Package : DF-2 (Additional Tests: Screen)

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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)