FUEL REPORT

Sample Rating Trend

ISO

Machine Id
KIOTI Randy (S/N VVF100337)
Component
Diesel Fuel
Fluid
{not provided} (--- GAL)

DIAGNOSIS

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 INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KT0001501**	---	---
Sample Date		Client Info		**30 May 2024**	---	---
Machine Age	hrs	Client Info		**10**	---	---
Sample Status				**ABNORMAL**	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		**L4.5**	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		**60.4**	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		**0**	---	---
Sulfur (UVF)	ppm	ASTM D5453		**7**	---	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		**172**	---	---
5% Distillation Point	°C	ASTM D86		**191**	---	---
10% Distill Point	°C	ASTM D86		**200**	---	---
15% Distillation Point	°C	ASTM D86		**208**	---	---
20% Distill Point	°C	ASTM D86		**215**	---	---
30% Distill Point	°C	ASTM D86		**230**	---	---
40% Distill Point	°C	ASTM D86		**244**	---	---
50% Distill Point	°C	ASTM D86		**258**	---	---
60% Distill Point	°C	ASTM D86		**273**	---	---
70% Distill Point	°C	ASTM D86		**288**	---	---
80% Distill Point	°C	ASTM D86		**305**	---	---
85% Distillation Point	°C	ASTM D86		**316**	---	---
90% Distill Point	°C	ASTM D86		**327**	---	---
95% Distillation Point	°C	ASTM D86		**346**	---	---
Final Boiling Point	°C	ASTM D86		**360**	---	---

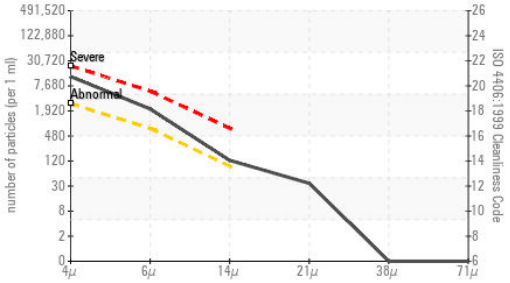
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		**39**	---	---
Cetane Index		ASTM D4737	<40.0	**52**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	**<1**	---	---
Sodium	ppm	ASTM D5185m	<0.1	**<1**	---	---
Potassium	ppm	ASTM D5185m	<0.1	**0**	---	---
Water	%	ASTM D6304	<0.05	**0.003**	---	---
ppm Water	ppm	ASTM D6304	<500	**35**	---	---
% Gasoline	%	*In-House	<0.50	**0.0**	---	---
% Biodiesel	%	*In-House	<20.0	**0.0**	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	▲ **11171**	---	---
Particles >6µm		ASTM D7647	>640	▲ **1874**	---	---
Particles >14µm		ASTM D7647	>80	● **110**	---	---
Particles >21µm		ASTM D7647	>20	● **31**	---	---
Particles >38µm		ASTM D7647	>4	**0**	---	---
Particles >71µm		ASTM D7647	>3	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ **21/18/14**	---	---

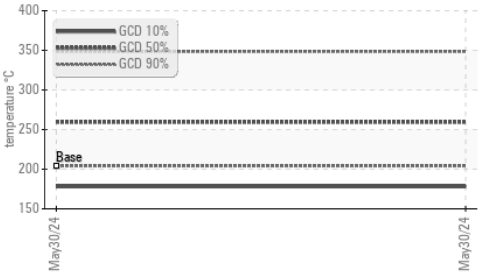
FUEL REPORT

Particle Count

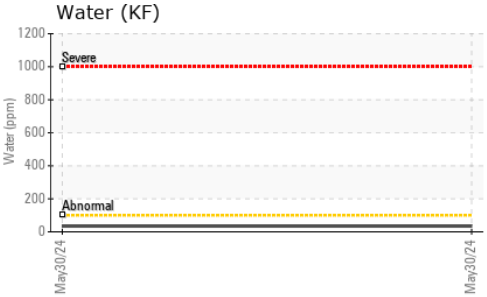


Particle Trend

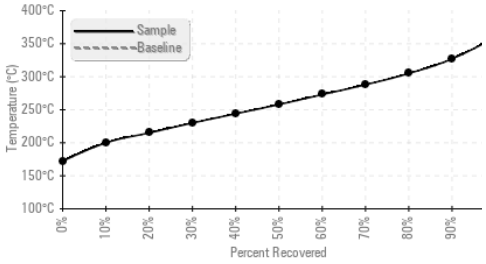
Gas Chromatography (GCD)



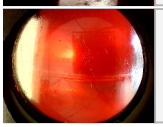
Water (KF)



Fuel Distillation Curve

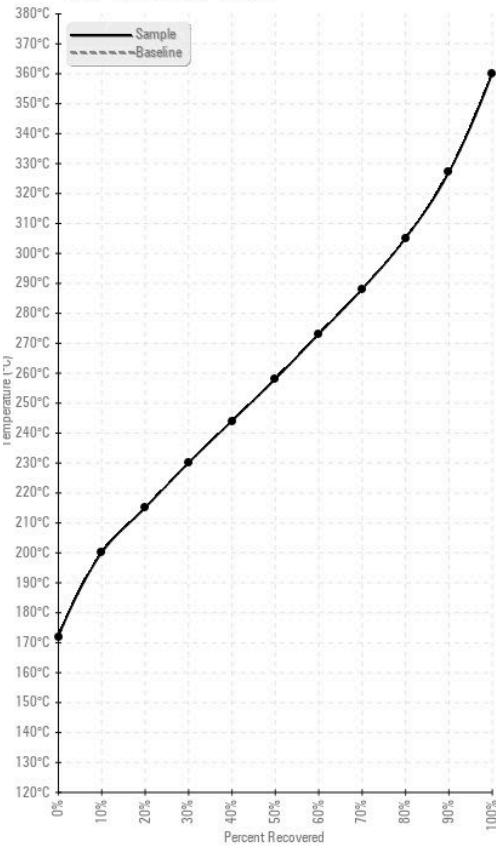


HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	**0**	---	---
Nickel	ppm	ASTM D5185m	<0.1	**0**	---	---
Lead	ppm	ASTM D5185m	<0.1	**0**	---	---
Vanadium	ppm	ASTM D5185m	<0.1	**0**	---	---
Iron	ppm	ASTM D5185m	<0.1	**0**	---	---
Calcium	ppm	ASTM D5185m	<0.1	**0**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

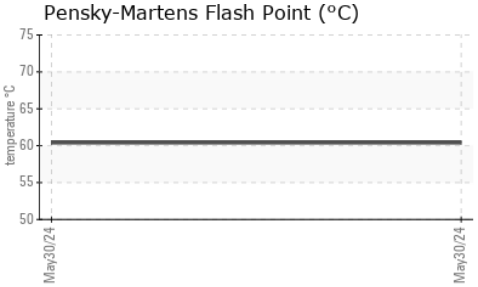
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

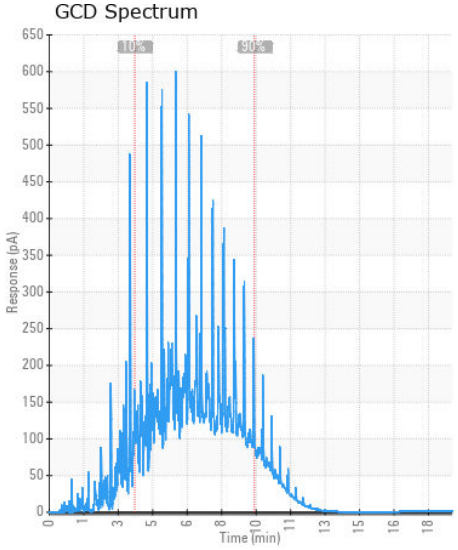
Fuel Distillation Curve



Pensky-Martens Flash Point (°C)



GCD Spectrum



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KT0001501 **Received** : 25 Jun 2024
Lab Number : 06220593 **Tested** : 28 Jun 2024
Unique Number : 11098790 **Diagnosed** : 28 Jun 2024 - Doug Bogart
Test Package : DF-2 (Additional Tests: Fuel, Screen)

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)

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Report Id: RRFJON [WUSCAR] 06220593 (Generated: 06/29/2024 00:57:11) Rev: 1

Submitted By: RR FARM PARTS ?