



FUEL REPORT

Sample Rating Trend



ISO



Machine Id
KIOTI YGG1000157

Component
Diesel Fuel

Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- 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	KT0001190	---	---
Sample Date	Client Info	29 May 2024	---	---
Machine Age	hrs Client Info	178	---	---
Sample Status		ABNORMAL	---	---

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
Fuel Color	text *Visual Screen	Yellow	Yellow	---
ASTM Color	scalar *ASTM D1500		L3.0	---
Visc @ 40°C	cSt ASTM D445	3.0	2.53	---
Pensky-Martens Flash Point	°C *PMCC Calculated	52	63.5	---

SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185m	10	0	---
Sulfur (UVF)	ppm ASTM D5453		8	---

DISTILLATION

method	limit/base	current	history1	history2
Initial Boiling Point	°C ASTM D86	165	176	---
5% Distillation Point	°C ASTM D86		196	---
10% Distill Point	°C ASTM D86	201	205	---
15% Distillation Point	°C ASTM D86		213	---
20% Distill Point	°C ASTM D86	216	220	---
30% Distill Point	°C ASTM D86	230	235	---
40% Distill Point	°C ASTM D86	243	249	---
50% Distill Point	°C ASTM D86	255	262	---
60% Distill Point	°C ASTM D86	267	276	---
70% Distill Point	°C ASTM D86	280	289	---
80% Distill Point	°C ASTM D86	295	304	---
85% Distillation Point	°C ASTM D86		313	---
90% Distill Point	°C ASTM D86	310	323	---
95% Distillation Point	°C ASTM D86		338	---
Final Boiling Point	°C ASTM D86	341	351	---

IGNITION QUALITY

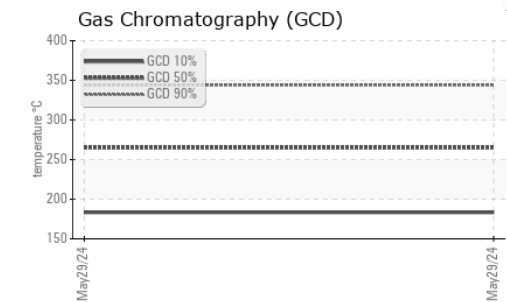
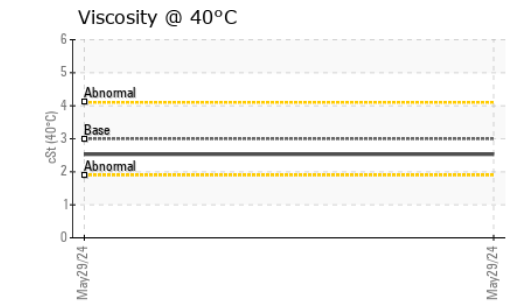
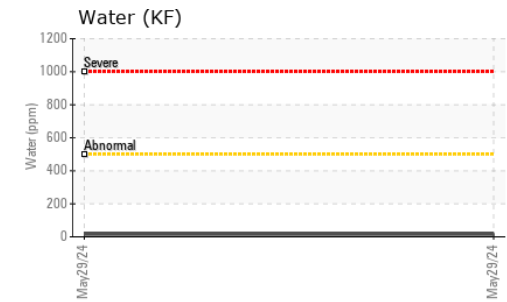
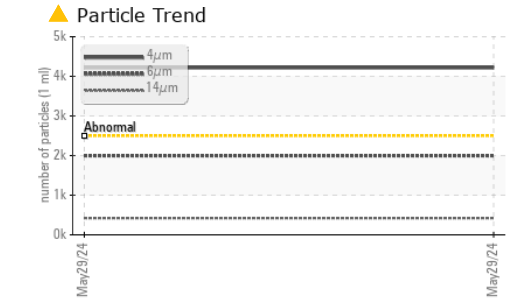
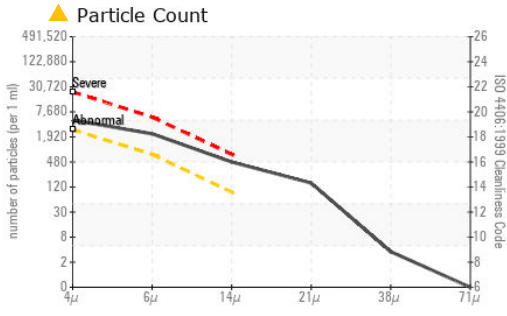
method	limit/base	current	history1	history2
API Gravity	ASTM D7777	37.7	36	---
Cetane Index	ASTM D4737	<40.0	49	---

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	2	---
Water	% ASTM D6304	<0.05	0.002	---
ppm Water	ppm ASTM D6304	<500	16	---
% Gasoline	% *In-House	<0.50	0.0	---
% Biodiesel	% *In-House	<20.0	0.0	---



FUEL REPORT

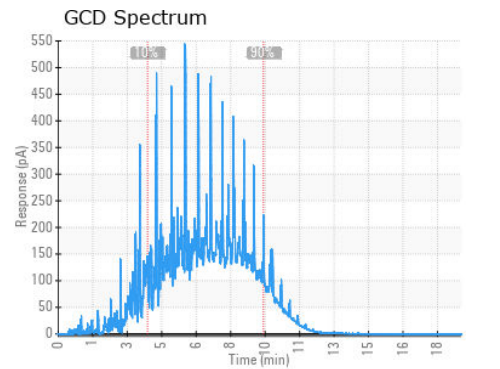
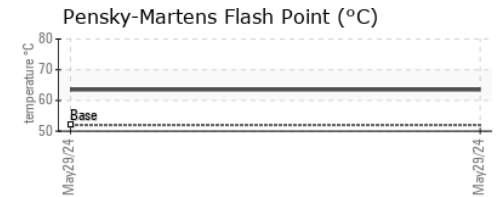
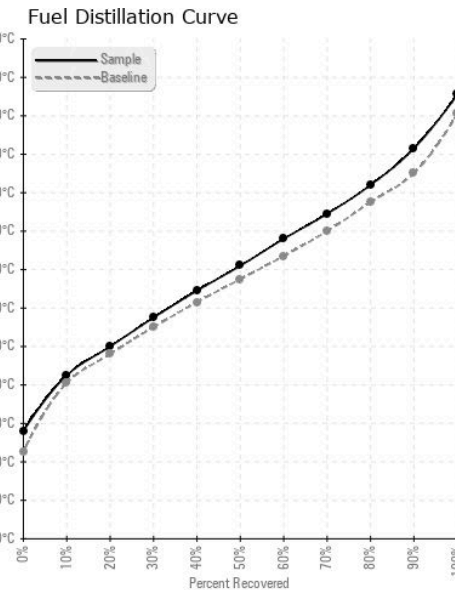


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	● 4217	---	---
Particles >6µm	ASTM D7647	>640	▲ 1997	---	---
Particles >14µm	ASTM D7647	>80	▲ 421	---	---
Particles >21µm	ASTM D7647	>20	▲ 132	---	---
Particles >38µm	ASTM D7647	>4	3	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 19/18/16	---	---

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	<1	---	---
Vanadium	ppm	ASTM D5185m <0.1	<1	---	---
Iron	ppm	ASTM D5185m <0.1	0	---	---
Calcium	ppm	ASTM D5185m <0.1	0	---	---
Magnesium	ppm	ASTM D5185m <0.1	<1	---	---
Phosphorus	ppm	ASTM D5185m <0.1	<1	---	---
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



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KT0001190
Lab Number : 06198650
Unique Number : 11060773
Test Package : DF-2 (Additional Tests: Fuel, Screen)

Received : 03 Jun 2024
Tested : 10 Jun 2024
Diagnosed : 11 Jun 2024 - Doug Bogart

HITCHIN POST TRAILER AND TRACTOR
 39285 US HWY 24
 LAKE GEORGE, CO
 US 80827

Contact: MANDY BUSH
 hitchin.posttts@gmail.com
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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)