



FUEL REPORT

Sample Rating Trend



CONTAMINANT



Machine Id
683965
 Component
Diesel Fuel
 Fluid
DIESEL FUEL No. 1 (--- GAL)

DIAGNOSIS

▲ Recommendation

Recommend drain fuel if not already done and flush before refilling with fuel.

Corrosion

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

▲ Contaminants

There is a high amount of gasoline present in the fuel. Tests confirm the presence of gasoline in the fuel. There is no bacteria or fungus (yeast and/or mold) indicated in the sample.

▲ Fuel Condition

Gasoline is present in the fuel and is lowering the viscosity. 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			RY0123419	---	---
Sample Date	Client Info			04 Apr 2024	---	---
Machine Age	mls	Client Info		0	---	---
Sample Status				SEVERE	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.831	---	---
Fuel Color	text	*Visual Screen		Yellow	---	---
ASTM Color	scalar	*ASTM D1500		L3.0	---	---
Visc @ 40°C	cSt	ASTM D445	2.4	▲ 1.76	---	---

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

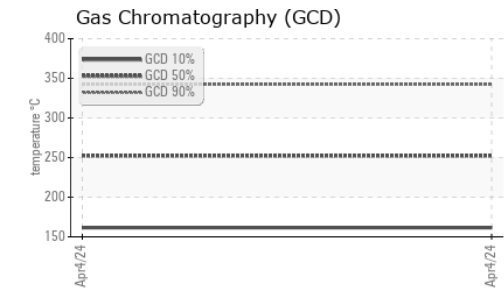
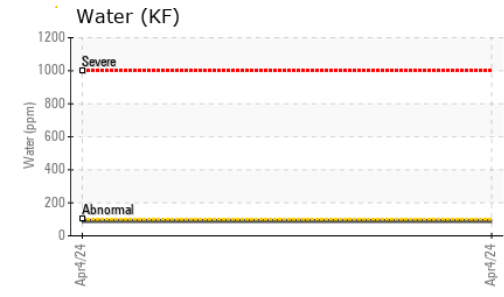
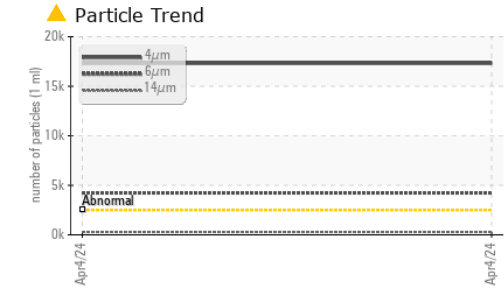
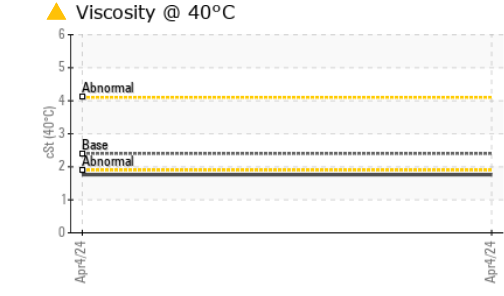
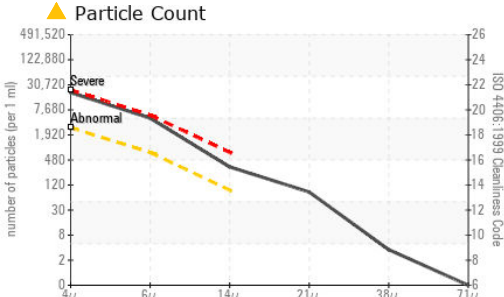
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		▲ 55	---	---
5% Distillation Point	°C	ASTM D86		121	---	---
10% Distill Point	°C	ASTM D86		161	---	---
15% Distillation Point	°C	ASTM D86		182	---	---
20% Distill Point	°C	ASTM D86		195	---	---
30% Distill Point	°C	ASTM D86		215	---	---
40% Distill Point	°C	ASTM D86		232	---	---
50% Distill Point	°C	ASTM D86		248	---	---
60% Distill Point	°C	ASTM D86		265	---	---
70% Distill Point	°C	ASTM D86		283	---	---
80% Distill Point	°C	ASTM D86		303	---	---
85% Distillation Point	°C	ASTM D86		315	---	---
90% Distill Point	°C	ASTM D86		332	---	---
95% Distillation Point	°C	ASTM D86		343	---	---
Final Boiling Point	°C	ASTM D86		352	---	---
Distillation Residue	%	ASTM D86		▲ 1.4	---	---
Distillation Loss	%	ASTM D86		3.6	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		38.8	---	---
Cetane Index		ASTM D4737	<40.0	47.4	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	---	---
Sodium	ppm	ASTM D5185m	<0.1	0	---	---
Potassium	ppm	ASTM D5185m	<0.1	<1	---	---
Water	%	ASTM D6304	<0.05	0.008	---	---
ppm Water	ppm	ASTM D6304	<500	88	---	---
% Gasoline	%	*In-House	<0.50	▲ 10.8	---	---
% Biodiesel	%	*In-House	<20.0	0.0	---	---



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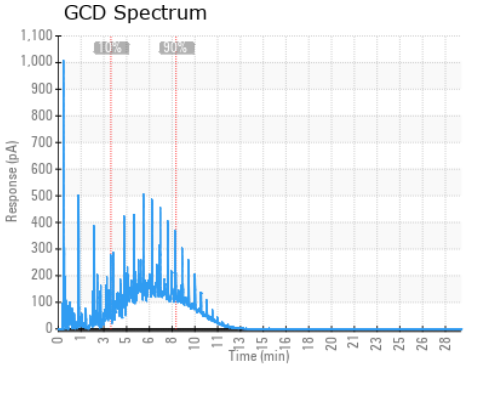
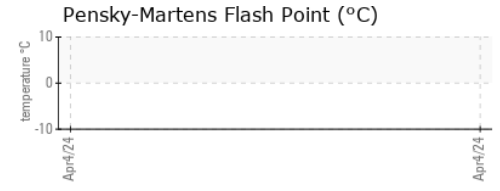
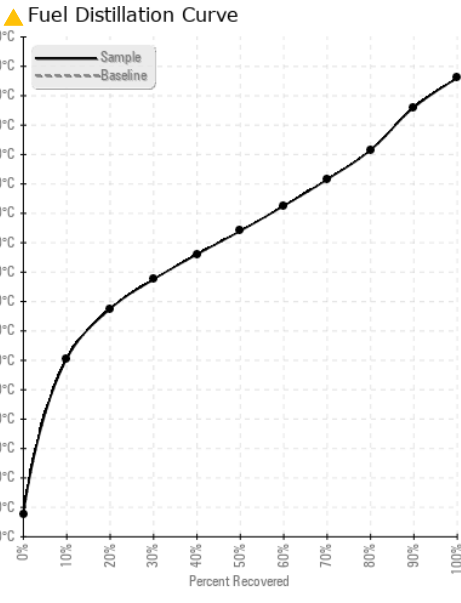


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 17315	---	---
Particles >6µm	ASTM D7647	>640	▲ 4231	---	---
Particles >14µm	ASTM D7647	>80	▲ 288	---	---
Particles >21µm	ASTM D7647	>20	▲ 72	---	---
Particles >38µm	ASTM D7647	>4	3	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 21/19/15	---	---

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m <0.1	1	---	---
Nickel	ppm	ASTM D5185m <0.1	<1	---	---
Lead	ppm	ASTM D5185m <0.1	1	---	---
Vanadium	ppm	ASTM D5185m <0.1	<1	---	---
Iron	ppm	ASTM D5185m <0.1	<1	---	---
Calcium	ppm	ASTM D5185m <0.1	5	---	---
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	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RY0123419 **Received** : 11 Apr 2024
Lab Number : 06146289 **Tested** : 23 Apr 2024
Unique Number : 10976367 **Diagnosed** : 23 Apr 2024 - Doug Bogart
Test Package : DF-3 (Additional Tests: Fuel, Screen)

Ryder Transportation Services
 1499 Lissner Ave
 SAVANNAH, GA
 US 31408
 Contact: RICHARD BELL

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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