



FUEL REPORT

Sample Rating Trend



ISO



Area
QTS ATLANTA GA DC1 [4769]
 Machine Id
[QTS ATLANTA GA DC1] AST-2
 Component
Diesel Fuel
 Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (20000 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. There is no bacteria or fungus (yeast and/or mold) present in the sample. The water content is negligible. There is no indication of any contamination in the fuel.

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			WC0953975	---	---
Sample Date	Client Info			22 May 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Sample Status				ABNORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yellow	Red	---	---
ASTM Color	scalar	*ASTM D1500		L4.5	---	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.32	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	59	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	1	---	---
Sulfur (UVF)	ppm	ASTM D5453		10	---	---

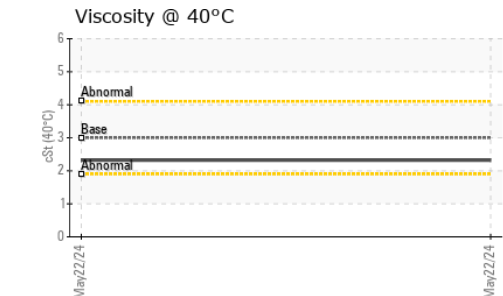
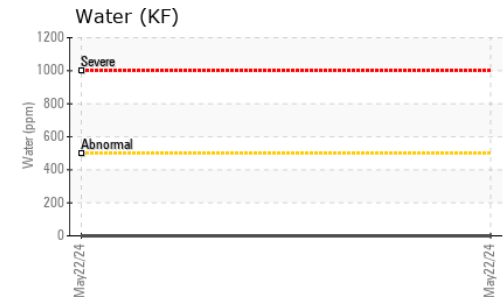
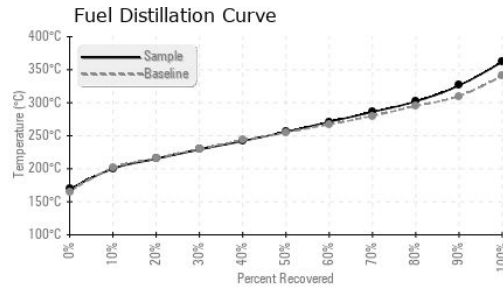
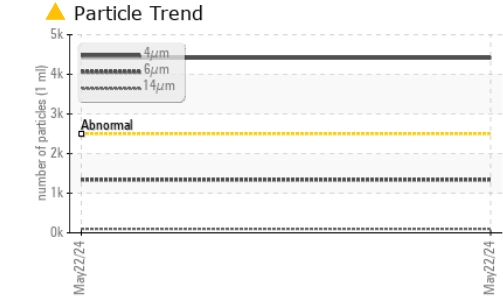
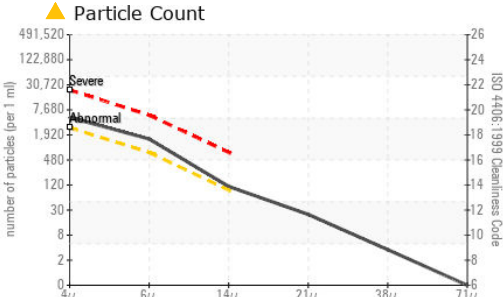
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	169	---	---
5% Distillation Point	°C	ASTM D86		190	---	---
10% Distill Point	°C	ASTM D86	201	200	---	---
15% Distillation Point	°C	ASTM D86		207	---	---
20% Distill Point	°C	ASTM D86	216	215	---	---
30% Distill Point	°C	ASTM D86	230	229	---	---
40% Distill Point	°C	ASTM D86	243	242	---	---
50% Distill Point	°C	ASTM D86	255	256	---	---
60% Distill Point	°C	ASTM D86	267	271	---	---
70% Distill Point	°C	ASTM D86	280	286	---	---
80% Distill Point	°C	ASTM D86	295	302	---	---
85% Distillation Point	°C	ASTM D86		314	---	---
90% Distill Point	°C	ASTM D86	310	326	---	---
95% Distillation Point	°C	ASTM D86		345	---	---
Final Boiling Point	°C	ASTM D86	341	362	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	36	---	---
Cetane Index		ASTM D4737	<40.0	47	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	---	---
Sodium	ppm	ASTM D5185m	<0.1	2	---	---
Potassium	ppm	ASTM D5185m	<0.1	2	---	---
Water	%	ASTM D6304	<0.05	0.00	---	---
ppm Water	ppm	ASTM D6304	<500	0	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	0.0	---	---



FUEL REPORT



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0953975 **Received** : 07 Jun 2024
Lab Number : 06203244 **Tested** : 14 Jun 2024
Unique Number : 11070705 **Diagnosed** : 17 Jun 2024 - Elizabeth Valachovic
Test Package : DF-2 (Additional Tests: BACTERIA, Fuel, Screen)

PETROLEUM RECOVERY SERVICES
 210 POWELL DR
 SUMMERVILLE, SC
 US 29483
 Contact: AJAY EL
 Ajay@prsfuel.com
 T: (843)225-1777
 F:

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)

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 4412	---	---
Particles >6µm	ASTM D7647	>640	▲ 1341	---	---
Particles >14µm	ASTM D7647	>80	▲ 98	---	---
Particles >21µm	ASTM D7647	>20	▲ 21	---	---
Particles >38µm	ASTM D7647	>4	3	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 19/18/14	---	---

MICROBIAL	method	limit/base	current	history1	history2
Bacteria	CFU/ml WC-Method	≥100000	0	---	---
Yeast	CFU/ml WC-Method	≥100000	0	---	---
Mold	Colonies WC-Method	MODER	---	---	---

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	0	---	---
Phosphorus	ppm ASTM D5185m	<0.1	6	---	---
Zinc	ppm ASTM D5185m	<0.1	4	---	---

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

