



FUEL REPORT

CORROSION	NORMAL
CONTAMINANTS	ATTENTION
FUEL CONDITION	NORMAL

Area

[2023]

Machine Id

1- 725 BUCHANAN ST NE WASHINGTON DC- ASCENSION

Component

Diesel Fuel

Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (800 GAL)

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. (Customer Sample Comment: 725 Buchanan Diesel Fuel Sample)

CORROSION

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

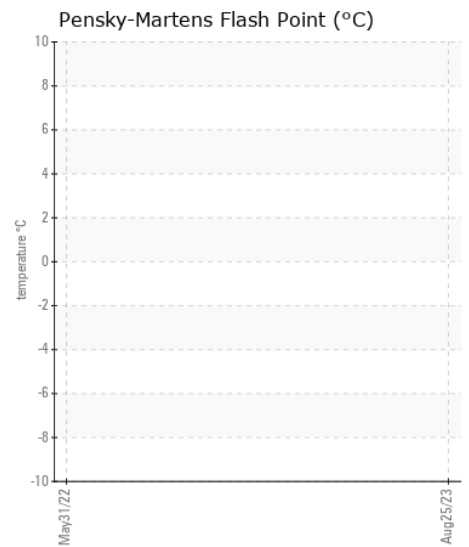
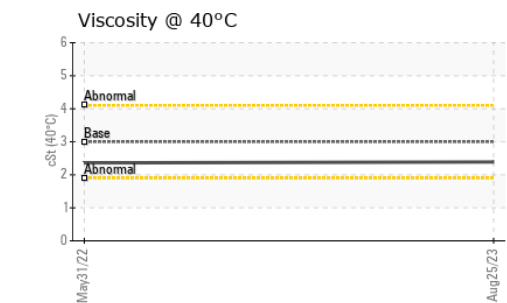
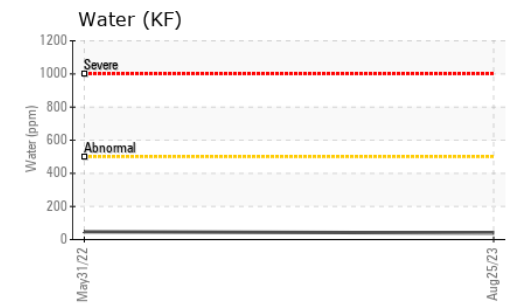
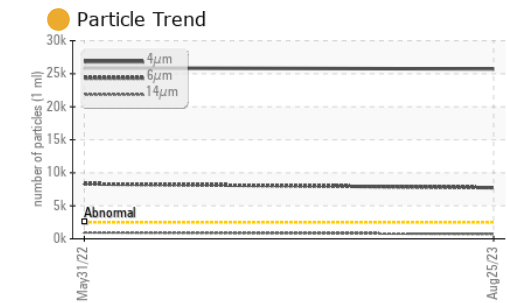
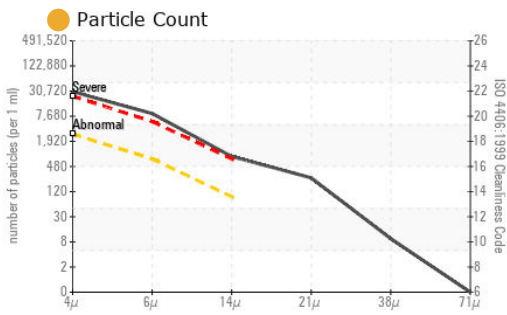
CONTAMINANTS

There is a high amount of particulates present in the fuel. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible.

FUEL CONDITION

Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0029679	DC0016661	---
Sample Date		Client Info		25 Aug 2023	31 May 2022	---
Machine Age	hrs	Client Info		0	0	---
Sample Status				ATTENTION	ATTENTION	---
Aluminum	ppm	ASTM D5185m	<0.1	1	0	---
Nickel	ppm	ASTM D5185m	<0.1	0	0	---
Lead	ppm	ASTM D5185m	<0.1	0	<1	---
Vanadium	ppm	ASTM D5185m	<0.1	<1	0	---
Iron	ppm	ASTM D5185m	<0.1	0	0	---
Silicon	ppm	ASTM D5185m	<1.0	<1	0	---
Sodium	ppm	ASTM D5185m	<0.1	0	0	---
Potassium	ppm	ASTM D5185m	<0.1	0	<1	---
Water	%	ASTM D6304	<0.05	0.003	0.004	---
ppm Water	ppm	ASTM D6304	<500	39.6	47.4	---
Particles >4µm		ASTM D7647	>2500	25726	25885	---
Particles >6µm		ASTM D7647	>640	7742	8320	---
Particles >14µm		ASTM D7647	>80	732	954	---
Particles >21µm		ASTM D7647	>20	226	280	---
Particles >38µm		ASTM D7647	>4	8	11	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	22/20/17	22/20/17	---
% Gasoline	%	*In-House	<0.50	0.0	0.0	---
% Biodiesel	%	*In-House	<20.0	0.0	0.0	---
Calcium	ppm	ASTM D5185m	<0.1	0	67	---
Magnesium	ppm	ASTM D5185m	<0.1	0	<1	---
Phosphorus	ppm	ASTM D5185m	<0.1	3	24	---
Zinc	ppm	ASTM D5185m	<0.1	0	29	---
ASTM Color	scalar	*ASTM D1500		L4.0	L5.0	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.39	2.36	---
Sulfur	ppm	ASTM D5185m	10	0	116	---
Sulfur (UVF)	ppm	ASTM D5453		10	102	---
API Gravity		ASTM D7777	37.7	37.7	37.6	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0029679
Lab Number : 05950984
Unique Number : 10646943
Test Package : DF-5 (Additional Tests: API, Cetane, Fuel, SCREEN)

Received : 13 Sep 2023
Tested : 29 Sep 2023
Diagnosed : 29 Sep 2023 - Doug Bogart

JE RICHARDS
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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)