

FUEL REPORT

Sample Rating Trend



Machine Id

CAT MAN GEN

Component
Bulk Tank Diesel Fuel

DIESEL FUEL No. 2 (--- 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.

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.

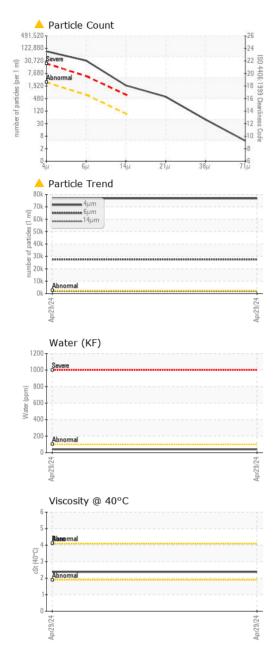
Fuel Condition

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

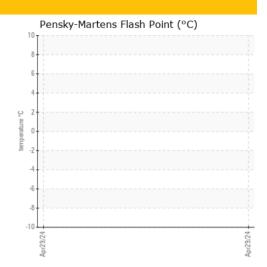
				Apr2024		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0942413		
Sample Date		Client Info		29 Apr 2024		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
PHYSICAL PROP	EDTIES	method	limit/base	current	history1	history2
			IIIIII/Dase		Tilstory	HISTOTYZ
ASTM Color	scalar	*ASTM D1500		L4.0		
Visc @ 40°C	cSt	ASTM D445	4.1	2.38		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		9		
CONTAMINANTS		method	limit/base	current	history1	history2
						-
Silicon	ppm	ASTM D5185m	<1.0	8		
Sodium	ppm	ASTM D5185m	<0.1	<1		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	<0.05	0.004		
ppm Water	ppm	ASTM D6304	<500	40		
% Gasoline	%	*In-House	< 0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	^ 76772		
Particles >6μm		ASTM D7647	>640	<u>27554</u>		
Particles >14μm		ASTM D7647	>80	1793		
Particles >21µm		ASTM D7647	>20	<u> </u>		
Particles >38μm		ASTM D7647	>4	42		
Particles >71μm		ASTM D7647	>3	<u> </u>		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<u>23/22/18</u>		
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	<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	0		
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image



FUEL REPORT



GRAPHS





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0942413 Lab Number : 06184858 Unique Number : 11036184

Received : 20 May 2024 **Tested** Diagnosed

: 31 May 2024 : 31 May 2024 - Doug Bogart 1076 CLASSIC RD

Contact: SERVICE service@vitalfuelsystems.com T: (919)629-8180

VITAL FUEL SYSTEMS

Test Package : DF-5 (Additional Tests: Screen) Certificate 12367 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) F: (919)303-7399

APEX, NC

US 27539