

FUEL REPORT

Sample Rating Trend



ISO

Machine Id

CYRUSONE MAIN TANK 1

Diesel Fuel

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- 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.

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

Contaminants

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

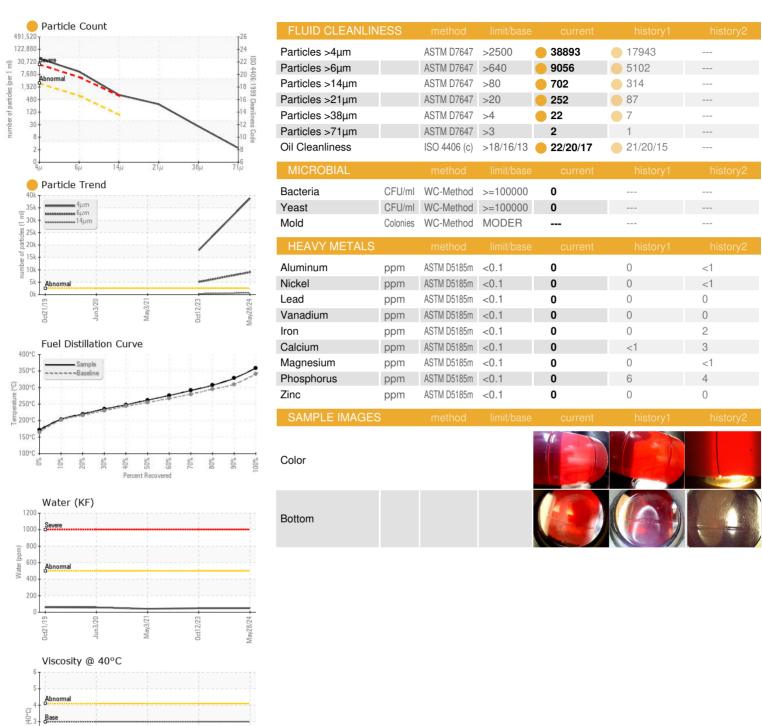
Fuel Condition

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

R) (GAL)		Oct2019	Jun2020	May2021 Oct2023	May2024	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0929960	WC0869456	WCDF03699
Sample Date		Client Info		28 May 2024	12 Oct 2023	03 May 2021
Machine Age	hrs	Client Info		0	0	0
Sample Status				ATTENTION	ATTENTION	NORMAL
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298	0.839		0.841	0.843
Fuel Color	text	*Visual Screen	Yllow	Red	Red	Red
ASTM Color	scalar	*ASTM D1500		L4.5	L4.5	L6.0
Visc @ 40°C	cSt	ASTM D445	3.0	2.53	2.46	2.55
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	60.3	58	64
SULFUR CONTER	VT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	2	0	12
Sulfur (UVF)	ppm	ASTM D5453		7	7	8
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	171	162	155
5% Distillation Point	°C	ASTM D86		194	188	190
10% Distill Point	°C	ASTM D86	201	204	199	202
15% Distillation Point	°C	ASTM D86		212	209	211
20% Distill Point	°C	ASTM D86	216	220	216	220
30% Distill Point	°C	ASTM D86	230	235	233	234
40% Distill Point	°C	ASTM D86	243	248	247	249
50% Distill Point	°C	ASTM D86	255	262	262	263
60% Distill Point 70% Distill Point	°C	ASTM D86	267 280	276 291	276 291	277 292
80% Distill Point	°C	ASTM D86	295	307	307	308
85% Distillation Point	°C	ASTM D86	233	317	317	317
90% Distill Point	°C	ASTM D86	310	328	328	329
95% Distillation Point	°C	ASTM D86		345	344	346
Final Boiling Point	°C	ASTM D86	341	359	352	351
Distillation Residue	%	ASTM D86	3.0		1.4	1.4
Distillation Loss	%	ASTM D86	3.0		1.0	0.8
IGNITION QUALIT	Υ	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	36	36.8	36.4
Cetane Index		ASTM D4737	<40.0	48	48.1	47.7
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	0	0
Sodium	ppm	ASTM D5185m	<0.1	<1	0	0
Potassium	ppm	ASTM D5185m	<0.1	0	<1	<1
Water	%	ASTM D6304	< 0.05	0.004	0.004	0.004
ppm Water	ppm	ASTM D6304	<500	49	48.6	41.6
% Gasoline	%	*In-House	< 0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	1.2	1.3	1.0



FUEL REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06195859

: WC0929960

Unique Number : 11057982

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 May 2024 **Tested**

: 11 Jun 2024 Diagnosed Test Package: DF-2 (Additional Tests: BACTERIA, Fuel, Screen)

: 11 Jun 2024 - Doug Bogart

US 27539 Contact: SERVICE service@vitalfuelsystems.com T: (919)629-8180

VITAL FUEL SYSTEMS

1076 CLASSIC RD

APEX, NC

 st - 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