

FUEL REPORT

Area [14576] RI-2 - OFF-ROAD DIESEL

Tank Diesel Fuel

BIO DIESEL (--- GAL)

Sample Rating Trend



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) 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.

			,	Aug 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0850861		
Sample Date		Client Info		15 Aug 2023		
Machine Age	hrs	Client Info		0		
Sample Status				ATTENTION		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.838		
Fuel Color	text	*Visual Screen		Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445		2.34		
Pensky-Martens Flash Point	°C	*PMCC Calculated		59		
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		14		
Sulfur (UVF)	ppm	ASTM D5453		8		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		165		
5% Distillation Point	°C	ASTM D86		188		
10% Distill Point	°C	ASTM D86		197		
15% Distillation Point	°C	ASTM D86		206		
20% Distill Point	°C	ASTM D86		214		
30% Distill Point	°C	ASTM D86		227		
40% Distill Point	°C	ASTM D86		241		
50% Distill Point	°C	ASTM D86		255		
60% Distill Point	°C	ASTM D86		269		
70% Distill Point	°C	ASTM D86		285		
80% Distill Point	°C	ASTM D86		302		
85% Distillation Point	°C	ASTM D86		312		
90% Distill Point	°C	ASTM D86		324		
95% Distillation Point	°C	ASTM D86		342		
Final Boiling Point	°C	ASTM D86		351		
Distillation Residue	%	ASTM D86		1.4		
Distillation Loss	%	ASTM D86		0.7		
IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		37.4		
Cetane Index		ASTM D4737	<40.0	47.9		
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	0		
Water	%	ASTM D6304	< 0.05	0.004		
ppm Water	ppm	ASTM D6304	< 500	43.6		
% Gasoline	%	*In-House	< 0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



FUEL REPORT





Laboratory Sample No. Lab Number **Unique Number**

: WC0850861 : 05928542 : 10608489

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Aug 2023 Diagnosed : 23 Aug 2023

Diagnostician : Doug Bogart

Test Package : DF-2 (Additional Tests: Screen) Certificate L2367 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)

THOMAS INDUSTRIAL FABRICATION

296 COMMERCE CENTER DRIVE FLOYD, VA

US 24091 Contact: JULIE WADE

julie@thomasindfab.com T: (276)930-2422

Contact/Location: JULIE WADE - THOFLO