

# **FUEL REPORT**

# IDEM FO2T 12-13

Component **Diesel Fuel** 

**DIESEL FUEL No. 2 (--- GAL)** 

Sample Rating Trend



### Recommendation

ASTM D240 result 19,540 BTU/lb. Test performed at subcontracted ISO 17025 laboratory. All laboratory tests indicate that this sample meets specifications for No.2 low-sulfur diesel fuel.

### Corrosion

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

### Contaminants

There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible. The amount and size of particulates present in the system are acceptable.

### **Fuel Condition**

Sulfur value derived by ASTM D5453 method for ULSD validation.

		1		Sep2023		
SAMPLE INFORM	MATION	method				history2
Sample Number		Client Info		WC0790710		
Sample Date		Client Info		15 Sep 2023		
Machine Age	hrs	Client Info		0		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.862		
Fuel Color	text	*Visual Screen		Red		
ASTM Color	scalar	*ASTM D1500		L4.0		
Visc @ 40°C	cSt	ASTM D445	4.1	2.72		
Pensky-Martens Flash Point	°C	*PMCC Calculated		57		
Cloud Point	°C	ASTM D5771		-20		
Pour Point	°C	ASTM D5950		-36		
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		30		
Sulfur (UVF)	ppm	ASTM D5453		38		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		160		
5% Distillation Point	°C	ASTM D86		198		
10% Distill Point	°C	ASTM D86		212		
15% Distillation Point	°C	ASTM D86		220		
20% Distill Point	°C	ASTM D86		228		
30% Distill Point	°C	ASTM D86		242		
40% Distill Point	°C	ASTM D86		254		
50% Distill Point	°C	ASTM D86		266		
60% Distill Point	°C	ASTM D86		278		
70% Distill Point	°C	ASTM D86		290		
80% Distill Point	°C	ASTM D86		304		
85% Distillation Point	°C	ASTM D86		312		
90% Distill Point	°C	ASTM D86		323		
95% Distillation Point	°C	ASTM D86		339		
Final Boiling Point	°C	ASTM D86		350		
Distillation Residue	%	ASTM D86		1.4		
Distillation Loss	%	ASTM D86		0.4		
IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		32.7		
Cetane Index		ASTM D4737	<40.0	41.9		
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	0		
Water	%	ASTM D6304	< 0.05	0.003		
ppm Water	ppm	ASTM D6304	< 500	38.6		
% Gasoline	%	*In-House	< 0.50	0.0		

%

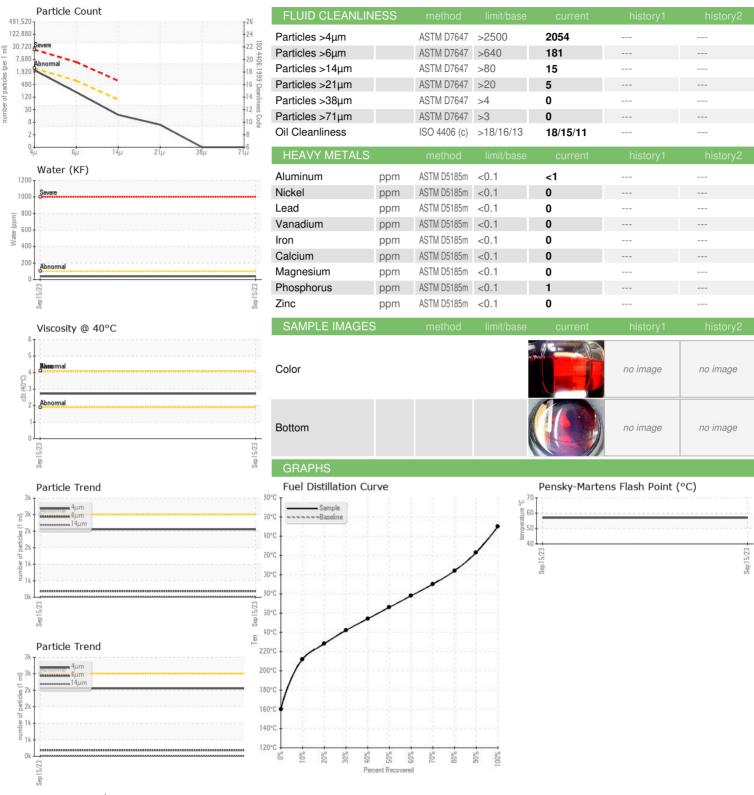
\*In-House <20.0

% Biodiesel

0.0



## **FUEL REPORT**







Laboratory Sample No. Lab Number Unique Number

: WC0790710 : 05960261

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Sep 2023 Diagnosed : 02 Oct 2023

Diagnostician : Doug Bogart

: 10661474 Test Package : DF-3 ( 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)

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