

### FUEL REPORT

Sample Rating Trend



# IDEM FO2T 1-5

Component Diesel Fuel Fluid DIESEL FUEL No. 2 (--- GAL)

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. ASTM D240 result 19,635 BTU/lb. Test performed at subcontracted ISO 17025 laboratory. 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 moderate amount of silt (particulates < 14 microns in size) present in the fuel. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The water content is negligible.

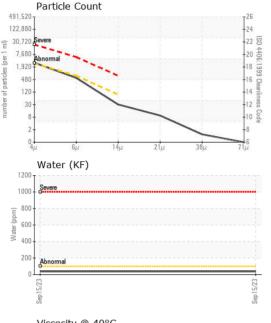
#### **Fuel Condition**

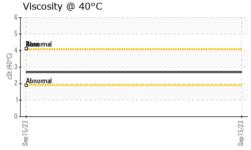
Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

				Sep 2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0790708		
Sample Date		Client Info		15 Sep 2023		
Machine Age	hrs	Client Info		0		
Sample Status	1110			NORMAL		
•				-		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.859		
Fuel Color	text	*Visual Screen		Red		
ASTM Color	scalar	*ASTM D1500		L4.0		
Visc @ 40°C	cSt	ASTM D445	4.1	2.69		
Pensky-Martens Flash Point	°C	*PMCC Calculated		59		
Cloud Point	°C	ASTM D5771		-19		
Pour Point	°C	ASTM D5950		-36		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		11		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		165		
5% Distillation Point	°C	ASTM D86		196		
10% Distill Point	°C	ASTM D86		210		
15% Distillation Point	°C	ASTM D86		219		
20% Distill Point	°C	ASTM D86		226		
30% Distill Point	°C	ASTM D86		239		
40% Distill Point	°C	ASTM D86		251		
50% Distill Point	°C	ASTM D86		263		
60% Distill Point	°C	ASTM D86		275		
70% Distill Point	°C	ASTM D86		289		
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		341		
Final Boiling Point	°C	ASTM D86		351		
Distillation Residue	%	ASTM D86		1.4		
Distillation Loss	%	ASTM D86		0.7		
IGNITION QUALI	ΓY	method	limit/base		history1	history2
API Gravity		ASTM D7777		33.2		
Cetane Index		ASTM D4737	<40.0	42.6		
CONTAMINANTS		method	limit/base		history1	history2
				current		
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	37.9		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		
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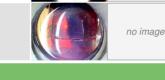


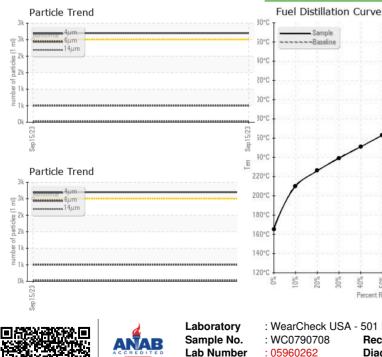




Bottom

GRAPHS





30% %0L 20% 40% 50% 80% 90% : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0790708 Received : 25 Sep 2023

Diagnosed

: 02 Oct 2023

Diagnostician : Doug Bogart

Pensky-Martens Flash Point (°C)



no image

PETROLEUM TECHNOLOGIES GROUP 4665 BROADMOOR AVE, SUITE 150 GRAND RAPIDS, MI US 49512 Contact: JAMES KRAFT james@oil-lab.com T: (616)698-9399 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F:

Certificate L2367

Unique Number

: 10661475

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

Test Package : DF-3 (Additional Tests: Screen)

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Contact/Location: JAMES KRAFT - PETGRAMI