

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.

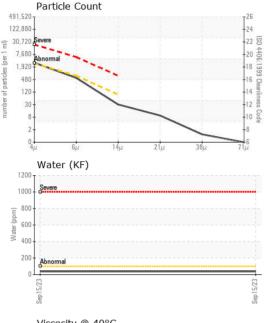
Fuel Condition

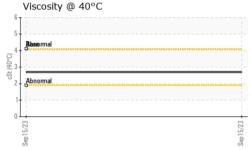
Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

				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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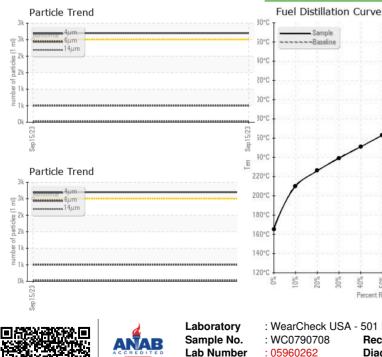




Bottom

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