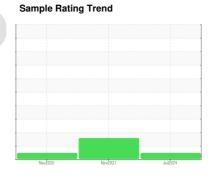


FUEL REPORT

Paul G. Blazer [Paul G. Blazer] Diesel - #1 Port

Diesel Fuel

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (6770 GAL)





DIAGNOSIS

Recommendation

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

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

Fuel Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0600236	WC0600203	RP199214
Sample Date		Client Info		09 Jul 2024	28 Nov 2021	03 Nov 2020
Machine Age	hrs	Client Info		0	0	0
Sample Status				NORMAL	ABNORMAL	NORMAL
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		L5.5	L5.0	
Visc @ 40°C	cSt	ASTM D445	3.0	2.44	2.57	2.49
SULFUR CONTE	VΤ	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	6	6	0
Sulfur (UVF)	ppm	ASTM D5453		10	10	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1	0	0
Sodium	ppm	ASTM D5185m	<0.1	<1	0	<1
Potassium	ppm	ASTM D5185m	< 0.1	0	0	0
Water	%	ASTM D6304	< 0.05	0.004	0.004	0.004
ppm Water	ppm	ASTM D6304	< 500	43	40.1	46.8
% Gasoline	%	*In-House	< 0.50	0.0	0.0	
% Biodiesel	%	*In-House	<20.0	0.0	3.5	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	555	3326	
Particles >6µm		ASTM D7647	>640	108	1182	
Particles >14μm		ASTM D7647	>80	10	<u>▲</u> 163	
Particles >21µm		ASTM D7647	>20	1	<u></u> ▲ 54	
Particles >38μm		ASTM D7647	>4	0	2	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>18/16/13	16/14/10	△ 19/17/15	
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	0	0
Nickel	ppm	ASTM D5185m	<0.1	0	0	<1
Lead	ppm	ASTM D5185m	<0.1	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Iron	ppm	ASTM D5185m	<0.1	0	0	0
Calcium	ppm	ASTM D5185m	<0.1	0	0	0
Magnesium	ppm	ASTM D5185m	<0.1	2	0	<1
Phosphorus	ppm	ASTM D5185m	< 0.1	<1	6	<1
Zinc	ppm	ASTM D5185m	< 0.1	1	0	0

SAMPLE IMAGES

Color

Bottom

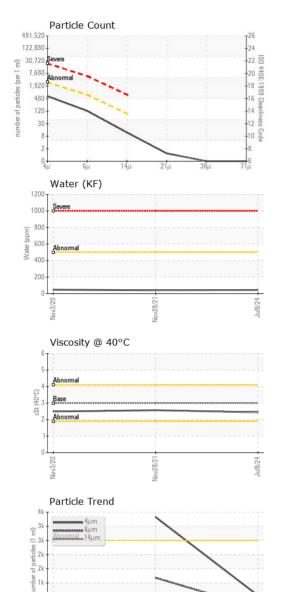


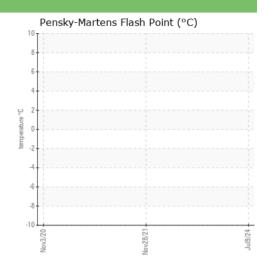


bmitted By: M/V PAUL BLAZEH



FUEL REPORT







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0600236 Lab Number : 06239532

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

Unique Number : 11128366 Test Package : DF-5 (Additional Tests: Screen)

Received **Tested** Diagnosed

: 17 Jul 2024 : 18 Jul 2024 : 19 Jul 2024 - Elizabeth Valachovic

101 12TH ST CATLETTSBURG, KY US 41169

Contact: CORY GUMBERT cagumbert@marathonpetroleum.com T: (606)585-3950

MARATHON PETROLEUM CO.

* - 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)

Submitted By: M/V PAUL BLAZER

F: x: