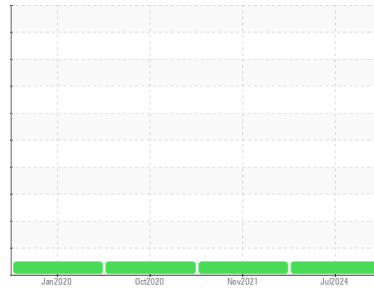




FUEL REPORT

Sample Rating Trend



NORMAL



Area

Paul G. Blazer

Machine Id

[Paul G. Blazer] Diesel - #2 Starboard

Component

Diesel Fuel

Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (13119 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

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

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level above maximum allowed value for ULSD specification.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0600246	WC0600222	RP199229
Sample Date	Client Info			09 Jul 2024	28 Nov 2021	20 Oct 2020
Machine Age	hrs	Client Info		0	0	0
Sample Status				NORMAL	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		L5.5	L5.0	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.5	2.28	2.23

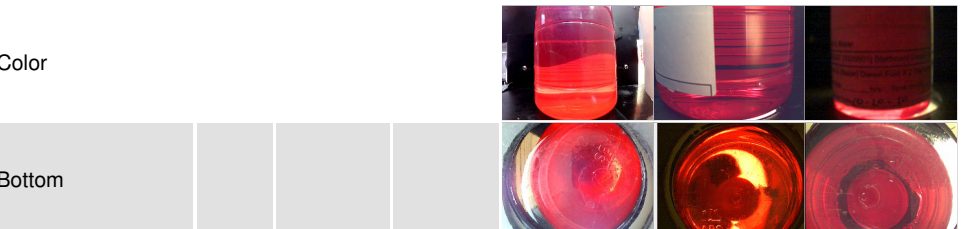
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	4	10	0
Sulfur (UVF)	ppm	ASTM D5453		9	6	---

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	<1	4
Water	%	ASTM D6304	<0.05	0.004	0.006	0.003
ppm Water	ppm	ASTM D6304	<500	49	64.0	25.3
% Gasoline	%	*In-House	<0.50	0.0	0.0	---
% Biodiesel	%	*In-House	<20.0	0.0	1.1	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	412	1585	---
Particles >6µm		ASTM D7647	>640	70	539	---
Particles >14µm		ASTM D7647	>80	4	59	---
Particles >21µm		ASTM D7647	>20	1	19	---
Particles >38µm		ASTM D7647	>4	0	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	16/13/9	18/16/13	---

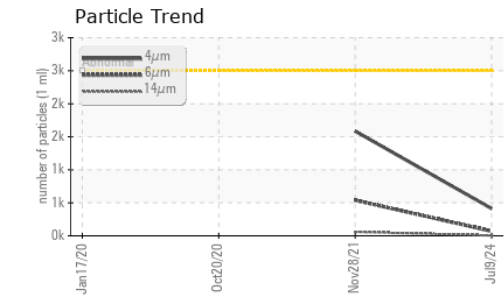
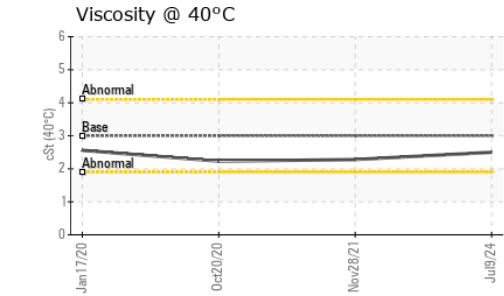
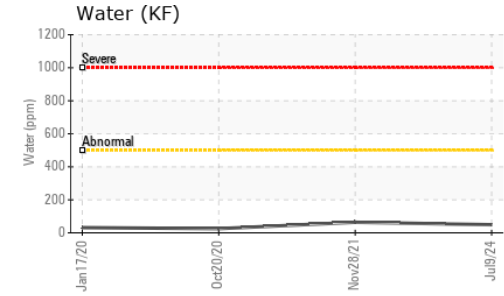
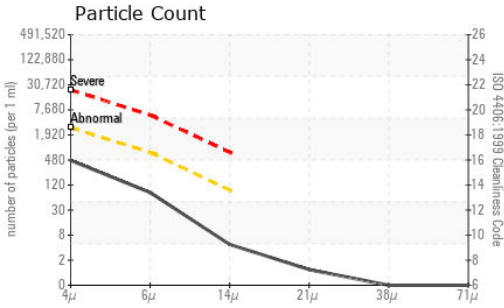
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	0	0
Nickel	ppm	ASTM D5185m	<0.1	0	0	<1
Lead	ppm	ASTM D5185m	<0.1	0	0	3
Vanadium	ppm	ASTM D5185m	<0.1	0	0	0
Iron	ppm	ASTM D5185m	<0.1	0	0	0
Calcium	ppm	ASTM D5185m	<0.1	0	2	0
Magnesium	ppm	ASTM D5185m	<0.1	2	0	<1
Phosphorus	ppm	ASTM D5185m	<0.1	<1	6	0
Zinc	ppm	ASTM D5185m	<0.1	1	0	0

SAMPLE IMAGES		method	limit/base	current	history1	history2
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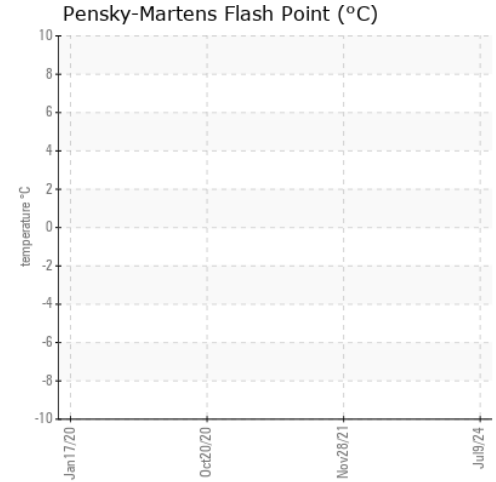




FUEL REPORT



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0600246 **Received** : 17 Jul 2024
Lab Number : 06239535 **Tested** : 18 Jul 2024
Unique Number : 11128369 **Diagnosed** : 19 Jul 2024 - Elizabeth Valachovic
Test Package : DF-5 (Additional Tests: Screen)

MARATHON PETROLEUM CO.
 101 12TH ST
 CATLETTSBURG, KY
 US 41169

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

Contact: CORY GUMBERT
 cagumbert@marathonpetroleum.com

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

T: (606)585-3950

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: x: