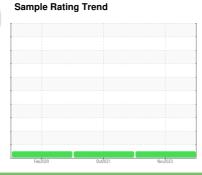


FUEL REPORT

Kentucky [Kentucky] Diesel - #2 Port

Diesel Fuel

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (15761 GAL)





Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel. (Customer Sample Comment: Tyson Bias)

Corrosion

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

Contaminants

The water content is negligible. There is no Bacteria, Yeast and/or Fungus indicated in the sample. There is no indication of any contamination in the fuel.

Fuel Condition

Sulfur value derived by ASTM D4294 method for ULSD validation.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Sample Status	hrs	Client Info Client Info Client Info		WC0600238 28 Nov 2023 0 NORMAL	RP0014043 08 Oct 2021 0 NORMAL	WCDF01164 10 Feb 2020 0 NORMAL
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
ASTM Color Visc @ 40°C	scalar cSt	*ASTM D1500 ASTM D445	3.0	L4.5 2.69	L5.5 2.18	L5.5 2.47
SULFUR CONTE	NΤ	method	limit/base	current	history1	history2
Sulfur Sulfur (UVF)	ppm ppm	ASTM D5185m ASTM D5453	10	0 8	3 10	0 5
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon Sodium Potassium Water ppm Water % Gasoline % Biodiesel FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness	ppm ppm ppm % ppm % % ESS	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 *In-House *In-House method ASTM D7647 ISO 4406 (c)	<1.0 <0.1 <0.1 <0.05 <500 <0.50 <20.0 limit/base >2500	0 0 -(1 0.001 15 0.0 0.0 current 3687 963 96 39 3 0	0 0 0 0.003 29.3 0.0 4.1 history1	0 0 0 0.004 40.5 0.0 4.9 history2
HEAVY METALS						historv2
HEAVY METALS Aluminum	ppm	method ASTM D5185m	limit/base <0.1	current 2	history1	history2
Nickel	ppm	ASTM D5185m	<0.1	0	0	<1
Lead	ppm	ASTM D5185m	<0.1	0	0	0
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	0	0
Magnesium Phosphorus	ppm	ASTM D5185m ASTM D5185m	<0.1	0	0	<1 1
Zinc	ppm	ASTM D5185m	<0.1	0	0	1

SAMPLE IMAGES

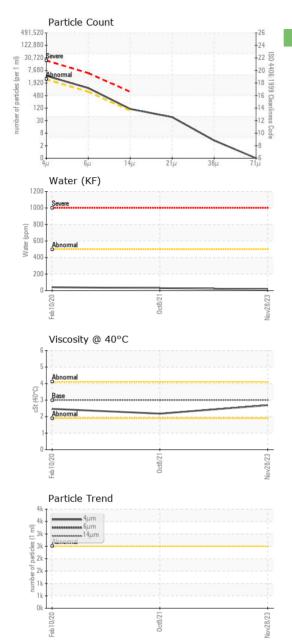
Color



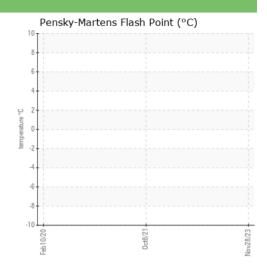




FUEL REPORT









Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0600238 : 06026949 Unique Number : 10776740

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.

Received Diagnosed **Test Package**: DF-5 (Additional Tests: Screen)

Diagnostician : Doug Bogart

: 06 Dec 2023 : 14 Dec 2023 MARATHON PETROLEUM CO. 101 12TH ST

CATLETTSBURG, KY US 41169

Contact: CORY GUMBERT

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

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

F: x:

Submitted By: M/V KENTUCKY