

FUEL REPORT

Kentucky [Kentucky] Diesel - #2 Starbo Component

Diesel Fuel

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (1

DIAGNOSIS

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.

board						
) (15761 GAL)						
			52020	Oct2021 Nov2		biotow 0
SAMPLE INFOR	MATION	method	limit/base		history1	history2
Sample Number		Client Info		WC0600244	WC0600201	WCDF01134
Sample Date Machine Age	hrs	Client Info Client Info		28 Nov 2023 0	08 Oct 2021	10 Feb 2020
Sample Status	1115			NORMAL	0 NORMAL	0 NORMAL
	DEDTIEC		11 11 11	-	-	-
PHYSICAL PRO	PERTIES		limit/base		history1	history2
ASTM Color	scalar	*ASTM D1500		L4.0	L5.0	L5.5
Visc @ 40°C	cSt	ASTM D445	3.0	2.7	2.22	2.66
SULFUR CONTE	INT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0	2	0
Sulfur (UVF)	ppm	ASTM D5453		8	10	4
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	0	<1
Sodium	ppm	ASTM D5185m	<0.1	0	0	0
Potassium	ppm	ASTM D5185m	<0.1	<1	0	0
Water	%	ASTM D6304	< 0.05	0.003	0.003	0.004
opm Water	ppm	ASTM D6304	<500	26	28.9	41.8
% Gasoline	%	*In-House	<0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	4.3	4.2
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	4514		
Particles >6µm		ASTM D7647	>640	1108		
Particles >14µm		ASTM D7647	>80	51		
Particles >21µm		ASTM D7647	>20	14		
Particles >38µm		ASTM D7647	>4	1		
Particles >71μm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	19/17/13		
HEAVY METALS	;	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	2	0	0
Nickel	ppm	ASTM D5185m	<0.1	0	0	0
_ead	ppm	ASTM D5185m	<0.1	0	0	0
Vanadium	ppm	ASTM D5185m	<0.1	0	0	0
ron	ppm	ASTM D5185m	<0.1	0	0	0
Calcium	ppm	ASTM D5185m ASTM D5185m	<0.1	0	0	<1
Magnesium Phosphorus	ppm	ASTM D5185m ASTM D5185m	<0.1 <0.1	0	0 3	0
Zinc	ppm ppm	ASTM D5185m	<0.1	0	0	<1
SAMPLE IMAGE	5	method	limit/base	current	history1	history2
Color					Cay	

Sample Rating Trend

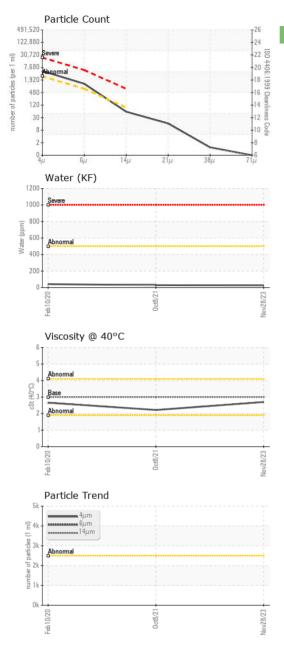
NORMAL

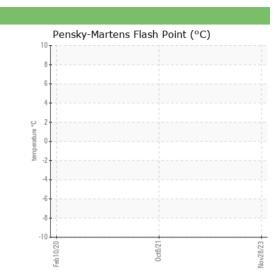
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Submitted By: M/V KENTUCKY



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		mple No.	: WearCheck USA - : WC0600244 : 06026952	501 Madison Av Received Diagnosed	e., Cary, NC 27513 : 06 Dec 2023 : 14 Dec 2023	MARATHON PETROLEU 101 12 CATLETTSBUF	TH ST
	Certificate L2367 Test To discuss this san	ique Number est Package mple report, co	: 10776743 : DF-5 (Additional T ontact Customer Ser outside of the ISO	Diagnostician ests: Screen) vice at 1-800-233	: Doug Bogart 7-1369.		41169 IBERT m.com
E1444628-187	Statements of confo	ormity to specifi	cations are based on	the simple accept	tance decision rule (JCGN	/ 106:2012)	F: x:

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