

Area BAIRDS TREE SERVICE [17606] [BAIRDS TREE SERVICE] CANFIELD TANK 2

Diesel Fuel Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (500 GAL)

DIAGNOSIS

Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

Corrosion

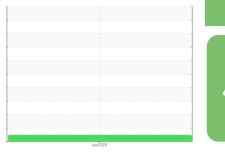
All metal levels are normal indicating no corrosion in the system.

Contaminants

The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. 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 is acceptable for ULSD specification.



Sample Rating Trend

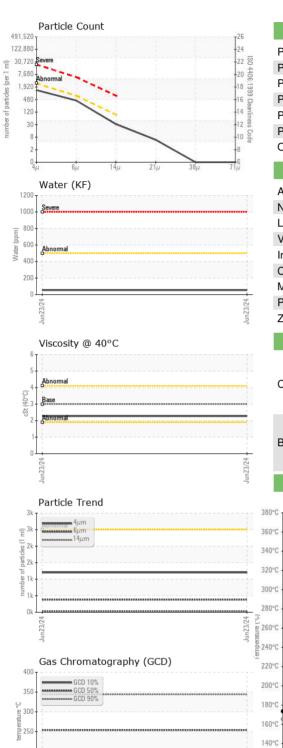


NORMAL

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0957781		
Sample Date		Client Info		23 Jun 2024		
Machine Age	hrs	Client Info		0		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yllow	Red		
ASTM Color	scalar	*ASTM D1500		L4.0		
Visc @ 40°C	cSt	ASTM D445	3.0	2.27		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	60.8		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	18		
Sulfur (UVF)	ppm	ASTM D5453		6		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	173		
5% Distillation Point	°C	ASTM D86		191		
10% Distill Point	°C	ASTM D86	201	199		
15% Distillation Point	°C	ASTM D86		205		
20% Distill Point	°C	ASTM D86	216	212		
30% Distill Point	°C	ASTM D86	230	225		
40% Distill Point	°C	ASTM D86	243	239		
50% Distill Point	°C	ASTM D86	255	253		
60% Distill Point	°C	ASTM D86	267	268		
70% Distill Point	°C	ASTM D86	280	284		
80% Distill Point	°C	ASTM D86	295	301		
85% Distillation Point	°C	ASTM D86		311		
90% Distill Point	°C	ASTM D86	310	321		
95% Distillation Point	°C	ASTM D86		336		
Final Boiling Point	°C	ASTM D86	341	350		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	40		
Cetane Index		ASTM D4737	<40.0	53		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0		
Sodium	ppm	ASTM D5185m	<0.1	1		
Potassium	ppm	ASTM D5185m	<0.1	<1		
Water	%	ASTM D6304	<0.05	0.005		
ppm Water	ppm	ASTM D6304	<500	54		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	1.5		



FUEL REPORT



FLUID CLEANLIN	IESS	method	limit/bas	e current	history1	history2
-24 Particles >4um		ASTM D7647	>2500	1202		
Particles >6µm		ASTM D7647	>640	382		
Particles >6μm 20 Particles >6μm 18 Particles >14μm 16 Particles >21μm 14 Particles >21μm 14 Particles >38μm 12 Particles 74 mm		ASTM D7647	>80	28		
Particles >21µm		ASTM D7647	>20	5		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	17/16/12		
HEAVY METALS		method	limit/bas	e current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0		
Nickel	ppm	ASTM D5185m	<0.1	<1		
Lead	ppm	ASTM D5185m	<0.1	0		
Vanadium	ppm	ASTM D5185m	<0.1	0		
Iron	ppm	ASTM D5185m	<0.1	0		
Calcium	ppm	ASTM D5185m	<0.1	0		
Magnesium	ppm	ASTM D5185m	<0.1	0		
Phosphorus	ppm	ASTM D5185m	<0.1	0		
Phosphorus Zinc	ppm	ASTM D5185m	<0.1	0		
SAMPLE IMAGES	5	method	limit/bas	e current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS Fuel Distillation Cu	12.40			Pensky-Marten	a Elach Daint (96)
380°C T	iive					
360°C - Sample			0	70-		
340°C -			1	80 70 60 Base		
			11	50		
320°C -		/		Jun23/24		
300°C -		1				
280°C -		K		GCD Spectrum		
Jun23/24 eraure (Tv)	1			700		
67/22 260°C	1					
				600 -		
220°C			e (pA)	500 - 400 - 300 -		
200°C			bonse	400-		
180°C			Res	300 -		
160°C				200-		
140°C -				100	MANA	
					The second	
4 + + + + + + + + + + + + + + + + + + +	- %(70% + 80% +	1 %00 %00		∞ 0 ⊑ m Time (min)	15
4 2 2 4	cent Recovered	71	90%		rune bruth	
Jun						
ory : WearCheck USA - 50				3 PETROL	EUM RECOVE	
No. : WC0957781 nber : 06218716	Receiv Tested		Jun 2024 Jul 2024			
nber : 06218716	Diagno)oug Rogart	50IVII	MERVILLE, S



200

150

Test Package : DF-2 (Additional Tests: Fuel, Screen) Certificate 12367 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Diagnosed

: 02 Jul 2024 - Doug Bogart

Unique Number : 11096913

US 29483 Contact: AJAY EL Ajay@prsfuel.com T: (843)225-1777 F:

Report Id: PETSUM [WUSCAR] 06218716 (Generated: 07/03/2024 03:21:35) Rev: 1

Contact/Location: AJAY EL - PETSUM