

# 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

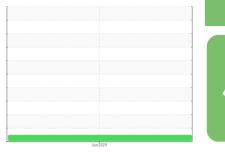
All metal levels are normal indicating no corrosion in the system.

#### 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

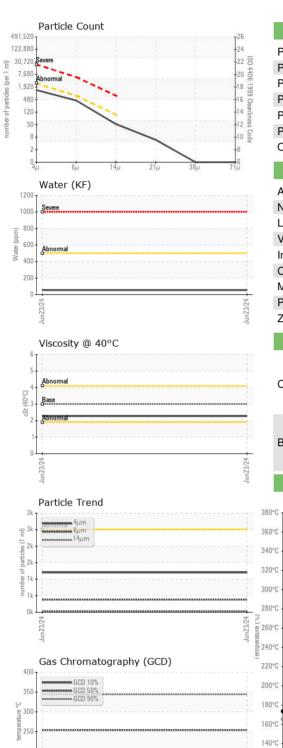


NORMAL

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