

FUEL REPORT

Area SUMMERVILLE MEDICAL CENTER MIDLAND PARK [17861] [SUMMERVILLE MEDICAL CENTER MIDLAND PARK] MAIN

Tank Diesel Fuel Fluid DIESEL FUEL No. 2 (10000 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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. 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



SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06206054		
Sample Date		Client Info		05 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		Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445	4.1	2.4		
Pensky-Martens Flash Point	°C	*PMCC Calculated		60.2		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		8		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		170		
5% Distillation Point	°C	ASTM D86		191		
10% Distill Point	°C	ASTM D86		201		
15% Distillation Point	°C	ASTM D86		208		
20% Distill Point	°C	ASTM D86		216		
30% Distill Point	°C	ASTM D86		231		
40% Distill Point	°C	ASTM D86		245		
50% Distill Point	°C	ASTM D86		259		
60% Distill Point	°C	ASTM D86		273		
70% Distill Point	°C	ASTM D86		288		
80% Distill Point	°C	ASTM D86		303		
85% Distillation Point	°C	ASTM D86		314		
90% Distill Point	°C	ASTM D86		325		
95% Distillation Point	°C	ASTM D86		344		
Final Boiling Point	°C	ASTM D86		359		
IGNITION QUALI	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		37		
Cetane Index		ASTM D4737	<40.0	48		
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	0.003		
ppm Water	ppm	ASTM D6304	<500	33		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



FUEL REPORT

ppm

ppm

ppm

ppm

>2500

ASTM D7647

ASTM D7647 >640

ASTM D7647 >80

ASTM D7647 >20

ASTM D7647 >4

ASTM D7647 >3

ASTM D5185m

ASTM D5185m <0.1

ASTM D5185m <0.1

ASTM D5185m <0.1

ISO 4406 (c) >18/16/13

<0.1

658

217

27

10

1

0

0

<1

0

17/15/12

FLUID CLEANLINESS

Particles >4µm Particles >6um

Particles >14µm

Particles >21µm

Particles >38µm

Particles >71µm

Oil Cleanliness

Aluminum

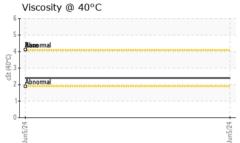
Vanadium

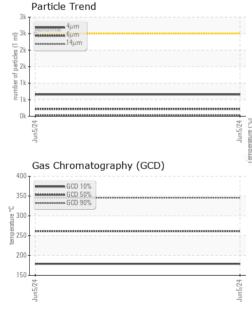
Nickel

Lead

HEAVY METALS

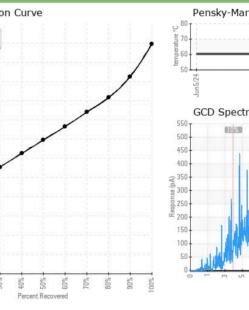
91,520 T	Particle Count				
					T ²⁶
22,880 -					-24
30,720	evere				-22 8
7,680	bnormal				-20 406
1,920					-18 1990
480-		200			-16 Ces
120-		-			-14 10
30-		-	_		-22 (\$0 4406:1999 Cleanliness Code -18 999 Cleanliness Code -14 -12 -10
8-					
2 -					-8
0 4µ	6 _µ	14µ	21µ	38µ	71µ
1200 1000	Severe				
<u></u> 800 -					
id 600					
8 400-					
200-	Abnormal				
ate					



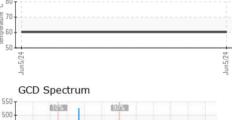


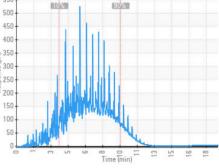
SAMPLE IMAGES method limit/base Color Bottom GRAPHS Fuel Distillation Curve 360°C			Vanadiani	ppiii		<0.1
Magnesium ppm ASTM D5185m <0.1 Phosphorus ppm ASTM D5185m <0.1 Zinc ppm ASTM D5185m <0.1 SAMPLE IMAGES method limit/base Color Bottom GRAPHS Fuel Distillation Curve 300°C 300°C 300°C 220°C 300°C 220°C 300°C 220°C 300°C 220°C 30°C 220°C 30°C 30°C 220°C 3			Iron	ppm	ASTM D5185m	<0.1
Phosphorus ppm ASTM D5185m <0.1 Zinc ppm ASTM D5185m <0.1 SAMPLE IMAGES method limit/base Color Bottom GRAPHS Fuel Distillation Curve Generation Sample 300°C 300°C 300°C 200°C 300°C 200°C 300°			Calcium	ppm	ASTM D5185m	<0.1
Zinc ppm ASTM D5185m <0.1 SAMPLE IMAGES method limit/base Color Bottom GRAPHS Fuel Distillation Curve 300°C 300°C 300°C 300°C 200°C 40°C 300°C 300°C 300°C 300°C 300°C 40°C 300°C 300°C 40°C			Magnesium	ppm	ASTM D5185m	<0.1
SAMPLE IMAGES method limit/base Color Bottom GRAPHS Fuel Distillation Curve 360°C	5/24		Phosphorus	ppm	ASTM D5185m	<0.1
Color Bottom GRAPHS Fuel Distillation Curve	Jun		Zinc	ppm	ASTM D5185m	<0.1
Color Bottom GRAPHS Fuel Distillation Curve			SAMPLE IMAGES		method	limit/base
GRAPHS Fuel Distillation Curve						
Fuel Distillation Curve 360°C Sample 360°C Sample 360°C Sample 300°C Sample 100°C Sample	Jun5/24					
380°C 360°C 340°C 320°C 300°C 220°C 220°C 220°C 160°C 140°C 10						
320°C 300°C 280°C 280°C 200°C 200°C 101 arresonation 220°C 200°C 160°C 160°C 100°C		380°		ve		
320°C 300°C 280°C 280°C 200°C 200°C 101 arresonation 220°C 200°C 160°C 160°C 100°C		360°				ature °
320°C 300°C 280°C 280°C 200°C 200°C 101 arresonation 220°C 200°C 160°C 160°C 100°C						
300°C 280°C 1) 280°C 280°C 220°C 220°C 220°C 160°C 160°C 160°C 160°C 100°C						
280°C hZ 280°C hZ 280°C hZ 20°C 20°C 20°C 180°C 160°C 140°C 120°C 20°C 10	i.				/	
Introduction Introduction<			1 1 1		/	
220°C 200°C 180°C 160°C 140°C 120°C 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	724	2001		/		
220°C 200°C 180°C 160°C 140°C 120°C 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Jun5	260°	·	/		
220°C 200°C 180°C 160°C 140°C 120°C 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	anna a	240°				
160°C 140°C 120°C 岩 岩 岩 岩 岩 岩 岩 岩 岩 岩 岩						(Pd
160°C 140°C 120°C 岩 岩 岩 岩 岩 岩 岩 岩 岩 岩 岩		200°				onse (
		180°				dsa 2 8 2
		160°	c -			1
+ " " " " " " " " " " " " " " " " " " "		140°	c			
+ " " " " " " " " " " " " " " " " " " "		120°				
	Jun5/24 -		0% 10% 20% 30% 40%		70%	90% 100%

no image no image no image no image



Pensky-Martens Flash Point (°C)







PETROLEUM RECOVERY SERVICES Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 210 POWELL DR Sample No. : WC06206054 Received : 10 Jun 2024 Lab Number : 06206054 Tested : 19 Jun 2024 SUMMERVILLE, SC Unique Number : 11073515 Diagnosed : 19 Jun 2024 - Angela Borella US 29483 Test Package : DF-2 (Additional Tests: Fuel, Screen) Contact: AJAY EL Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. Ajay@prsfuel.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (843)225-1777 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: PETSUM [WUSCAR] 06206054 (Generated: 06/22/2024 14:40:56) Rev: 2

Contact/Location: AJAY EL - PETSUM

E: