

Area **Procacci Development Weston [18385]** [Procacci Development Weston] GEN 1

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

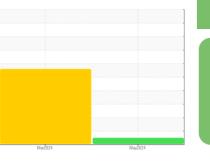
All metal levels are normal indicating no corrosion in the system.

Contaminants

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



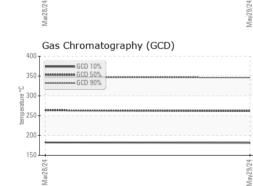
NORMAL

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0953955	WC06139457	
Sample Date		Client Info		29 May 2024	28 Mar 2024	
Machine Age	hrs	Client Info		0	0	
Sample Status				NORMAL	ABNORMAL	
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Fuel Color	text	*Visual Screen	Yllow	Red	Red	
ASTM Color	scalar	*ASTM D1500		L4.5	L4.0	
Visc @ 40°C	cSt	ASTM D445	3.0	2.5	2.46	
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	60.6	61.5	
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0	0	
Sulfur (UVF)	ppm	ASTM D5453		8	12	
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	171	172	
5% Distillation Point	°C	ASTM D86		193	195	
10% Distill Point	°C	ASTM D86	201	202	204	
15% Distillation Point	°C	ASTM D86		210	211	
20% Distill Point	°C	ASTM D86	216	217	219	
30% Distill Point	°C	ASTM D86	230	232	233	
40% Distill Point	°C	ASTM D86	243	245	247	
50% Distill Point	°C	ASTM D86	255	259	261	
60% Distill Point	°C	ASTM D86	267	274	275	
70% Distill Point	°C	ASTM D86	280	288	289	
80% Distill Point	°C	ASTM D86	295	304	305	
85% Distillation Point	°C	ASTM D86		315	315	
90% Distill Point	°C	ASTM D86	310	326	326	
95% Distillation Point	°C	ASTM D86		345	345	
Final Boiling Point	°C	ASTM D86	341	360	359	
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	36	36	
Cetane Index		ASTM D4737	<40.0	48	48	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1	0	
Sodium	ppm	ASTM D5185m	<0.1	1	<1	
Potassium	ppm	ASTM D5185m	<0.1	2	0	
Water	%	ASTM D6304	<0.05	0.003	0.016	
ppm Water	ppm	ASTM D6304	<500	36	166	
% Gasoline	%	*In-House	<0.50	0.0	0.0	
% Biodiesel	%	*In-House	<20.0	0.0	0.0	



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,520 T	ticle Cour				T ²⁶	F
2,880					-24	Pa
0,720 Severe					-22 80	Pa
.920 Abnor	mal				20 4406:19	Pa
480 •		1.1			99	Pa
120	_				-14 Cleanliness	Pa
30-		-			-12 % Code	Pa
8- 2-			-		-8	Oi
0 _{4µ}	6µ	14µ	21µ	38µ	71 _µ	
	ter (KF)	1 tpc	Lip	50μ	r ipi	ł
1200 T						Al
1000 - Seve	re					Ni
800						Le
600						Va
400-	ormal					Irc
						Ca
200						
200						
0					9/24	M
					May29/24	M Pł
Mar28/24	cosity @ 4	40°C			May29/24	M Pł Zi
Mar28/24	cosity @ 4	40°C			May29/24	M Pł Zi
0 + +5/82 Mar28/24		40°C			May29/24	Ma Ph Zii
Vis	cosity @ 4	40°C			Mar/29/24	Ma Př Ziu
Vis	ormal	40°C			May29/24	Ma Př Ziu
St (40°C) St (40°C)	ormal	40°C			May29/24	Ma Př Ziu
St (40°C) St (40°C)	ormal	40°C			Mar/29/24	Ma Ph Zin Co
Cost (40°C) Cost	ormal	40°C			Mar/29/24	Ma Ph Zin Co
Vis 6 5 4 3 2 4 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ormal	40°C				Ma Ph Zin Co
Cost (40°C) Cost	ormal	40°C			May29/24	Mi Př Zil Co Bo
Vis 6 5 4 3 2 1 0 + 5/82zeW	omal					Ma Pr Zin Co Bo
Vis 6 5 4 3 2 1 0 + 5/82zeW	ormal					Ma Pr Zin Co Bo
Vis 6 5 4 3 2 1 0 4700 Par 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	omal					Ma Př Ziu S Cc Bc Bc
Vis 6 5 4 3 2 1 0 4700 Par 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	omal					Ma Pr Zir Cc Bc Bc 360°C -
Vis 5 4 4 4 4 4 4 4 4 4 4 4 4 4	ormal ormal ticle Tren					Ma Ph Ziu S Ccc Bc Bc



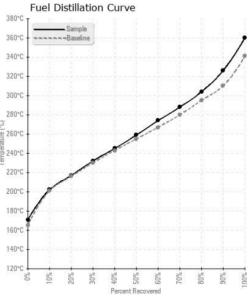
FUEL R	EPU	N I				
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	162	3437	
Particles >6µm		ASTM D7647	>640	51	0 1172	
Particles >14µm		ASTM D7647	>80	5	02	
Particles >21µm		ASTM D7647	>20	1	22	
Particles >38µm		ASTM D7647	>4	0	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>18/16/13	15/13/10	9/17/14	
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	0	
Nickel	ppm	ASTM D5185m	<0.1	0	0	
Lead	ppm	ASTM D5185m	<0.1	1	0	
Vanadium	ppm	ASTM D5185m	<0.1	0	0	
Iron	ppm	ASTM D5185m	<0.1	<1	0	
Calcium	ppm	ASTM D5185m	<0.1	0	0	
Magnesium	ppm	ASTM D5185m	<0.1	0	0	
Phosphorus	ppm	ASTM D5185m	<0.1	0	0	
Zinc	ppm	ASTM D5185m	<0.1	0	0	
SAMPLE IMAGES	;	method	limit/base	current	history1	history2

Color

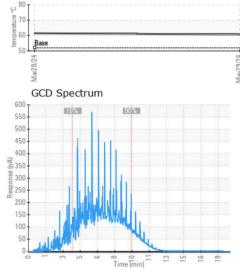


Bottom





Pensky-Martens Flash Point (°C)





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PETROLEUM RECOVERY SERVICES Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0953955 : 07 Jun 2024 210 POWELL DR Sample No. Received Lab Number : 06204069 Tested : 14 Jun 2024 SUMMERVILLE, SC Unique Number : 11071530 Diagnosed : 14 Jun 2024 - Elizabeth Valachovic 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)

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