

FUEL REPORT

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NORMAL

Area GWU HOSPITAL [25216] 182116 (S/N 2039864)

Diesel Fuel

Fluid No.2 DIESEL FUEL (HIGH-SULPHUR) (2110 GAL)

DIAGNOSIS

Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 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.

Fuel Condition

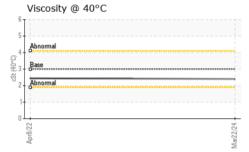
Sulfur value derived by ASTM D5453 method for ULSD validation.

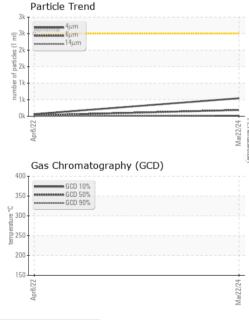
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		DCDF02994	DCDF03717	
Sample Date		Client Info		22 Mar 2024	08 Apr 2022	
Machine Age	hrs	Client Info		0	0	
Sample Status				NORMAL	NORMAL	
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298	0.839		0.855	
Fuel Color	text	*Visual Screen	Yllow	Red	Red	
ASTM Color	scalar	*ASTM D1500		L5.0	L6.0	
Visc @ 40°C	cSt	ASTM D445	3.0	2.4	2.44	
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	60.9	64	
Cloud Point	°C	ASTM D5771		-13	-13	
Pour Point	°C	ASTM D5950		-29	-30	
SULFUR CONTEN	-	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	500	1492	1134	
Sulfur (UVF)	ppm	ASTM D5453		1238	1145	
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	171	171	
5% Distillation Point	°C	ASTM D86		193	195	
10% Distill Point	°C	ASTM D86	201	203	204	
15% Distillation Point	°C	ASTM D86		211	213	
20% Distill Point	°C	ASTM D86	216	218	220	
30% Distill Point	°C	ASTM D86	230	233	233	
40% Distill Point	°C	ASTM D86	243	246	246	
50% Distill Point	°C	ASTM D86	255	259	259	
60% Distill Point	°C	ASTM D86	267	273	273	
70% Distill Point	°C	ASTM D86	280	287	287	
80% Distill Point	°C	ASTM D86	295	303	302	
85% Distillation Point	°C	ASTM D86		314	312	
90% Distill Point	°C	ASTM D86	310	325	323	
95% Distillation Point	°C	ASTM D86		343	340	
Final Boiling Point	°C	ASTM D86	341	358	349	
Distillation Residue	%	ASTM D86	3.0		1.4	
Distillation Loss	%	ASTM D86	3.0		0.5	
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	33	34.0	
Cetane Index		ASTM D4737	<40.0	41	40.1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	2	
Sodium	ppm	ASTM D5185m	<0.1	<1	0	
Potassium	ppm	ASTM D5185m	<0.1	0	0	
Water	%	ASTM D6304	< 0.05	0.005	0.006	
ppm Water	ppm	ASTM D6304	<500	60	60.5	
% Gasoline	%	*In-House	< 0.50	0.0	0.0	
% Biodiesel	%	*In-House	<20.0	0.0	0.0	



FUEL REPORT

	ticle Cour	nt			
491,520					T ²⁶
122,880					-24
30,720 Severe					-22 80
7,680 Abnor	nal				20 8
1,920	- 1 C				18 1999
480					-16 Clea
120-					-14 anime
30			-		-22 (\$0 4406:1999 Cleanliness -18 999 Cleanliness Code -14 -112 code -10 -10
			-	-	
2 -				-	-8
	^{6µ} ter (KF)	14µ	21µ	38µ	71µ
1200 1000 - Seve	ter (KF)	14µ	21µ	38 [°] µ	7Ϊμ
Wa 1200 1000	ter (KF) ^{re}	14µ	2íµ	38µ	τĭμ
Wa 1200 1000 800	ter (KF) ^{re}	14μ	21µ	38µ	71µ
Wa 1200 1000 - Seve (mdd) 600 4bm	ter (KF) ^{re}	14μ	21µ	38µ	71µ
Wa 1200 1000 - Seve 800 600 - Abn 200 -	ter (KF) ^{re}	14µ	21µ	38µ	71µ
Wa 1200 800 600 400 200	ter (KF) ^{re}	14µ	21µ	38µ	
Wa 1200 1000 - Seve 800 600 - Abn 200 -	ter (KF) ^{re}	14µ	21µ	38µ	йц Mar22224



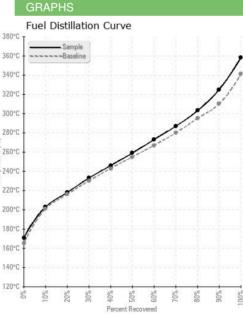


FLUID CLEANLIN	ESS	method				history2
Particles >4µm		ASTM D7647	>2500	544	65	
Particles >6µm		ASTM D7647	>640	188	28	
Particles >14µm		ASTM D7647	>80	26	6	
Particles >21µm		ASTM D7647	>20	9	2	
Particles >38µm		ASTM D7647	>4	1	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>18/16/13	16/15/12	13/12/10	
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	0	0	
Vanadium	ppm	ASTM D5185m	<0.1	0	0	
Iron	ppm	ASTM D5185m	<0.1	0	<1	
Calcium	ppm	ASTM D5185m	<0.1	0	0	
Magnesium	ppm	ASTM D5185m	<0.1	0	0	
Phosphorus	ppm	ASTM D5185m	<0.1	0	3	
Zinc	ppm	ASTM D5185m	<0.1	0	0	
SAMPLE IMAGES		method	limit/base	current	history1	history2

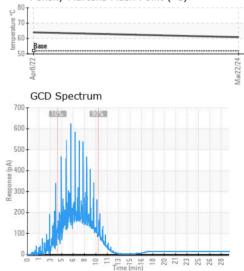
Color



Bottom



Pensky-Martens Flash Point (°C)





CURTIS ENGINE Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DCDF02994 3915 BENSON AVE Sample No. Received : 02 Apr 2024 Lab Number : 06136729 Tested : 12 Apr 2024 BALTIMORE, MD : 12 Apr 2024 - Doug Bogart Unique Number : 10956194 Diagnosed US 21227 Test Package : DF-3 (Additional Tests: Fuel, Screen) Contact: CHARNETTE WATERS Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. CWATERS@CURTISPS.COM * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: (410)536-2098 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: CURBAL [WUSCAR] 06136729 (Generated: 04/12/2024 11:55:54) Rev: 1

Contact/Location: CHARNETTE WATERS - CURBAL

Page 2 of 2