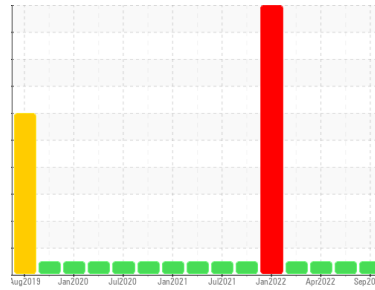




FUEL REPORT

Sample Rating Trend



NORMAL



Area
HOSPITAL
 Machine Id
ABOVE GROUND DUKE - JET A
 Component
Tank Jet Fuel
 Fluid
JET FUEL Type A (8000 GAL)

DIAGNOSIS

Recommendation

All laboratory tests indicate that this sample meets specifications for Jet-A fuel. Please note that this is a corrected copy for data entry updates for component type and linking histories.

Wear

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

Contamination

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.

Fluid Condition

The AN level is acceptable for this fluid. Sulfur value derived by ASTM D5453 method for ULSD validation.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WCDF04785	WC05592926	WC05516338
Sample Date	Client Info	22 Sep 2022	16 Jul 2022	10 Apr 2022
Machine Age	hrs Client Info	0	0	0
Oil Age	hrs Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298	0.803	0.802	0.804
Fuel Color	text *Visual Screen	Clear	Clear	Red
ASTM Color	scalar *ASTM D1500	0	L0.5	L0.5
Visc @ 40°C	cSt ASTM D445	1.27	1.42	1.36
Pensky-Martens Flash Point	°C *PMCC Calculated	52	51	49

SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185m	486	381	550
Sulfur (UVF)	ppm ASTM D5453	392	275	487

DISTILLATION

method	limit/base	current	history1	history2
Initial Boiling Point	°C ASTM D86	153	155	154
5% Distillation Point	°C ASTM D86	172	173	171
10% Distill Point	°C ASTM D86	176	178	175
15% Distillation Point	°C ASTM D86	179	181	179
20% Distill Point	°C ASTM D86	183	185	182
30% Distill Point	°C ASTM D86	189	192	190
40% Distill Point	°C ASTM D86	197	199	198
50% Distill Point	°C ASTM D86	205	207	206
60% Distill Point	°C ASTM D86	213	216	214
70% Distill Point	°C ASTM D86	223	225	224
80% Distill Point	°C ASTM D86	233	236	234
85% Distillation Point	°C ASTM D86	239	243	241
90% Distill Point	°C ASTM D86	247	251	249
95% Distillation Point	°C ASTM D86	258	264	261
Final Boiling Point	°C ASTM D86	272	277	273
Distillation Residue	% ASTM D86	1.2	1.2	1.4
Distillation Loss	% ASTM D86	0.7	0.7	0.5

IGNITION QUALITY

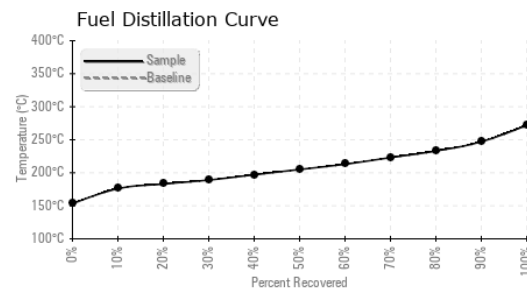
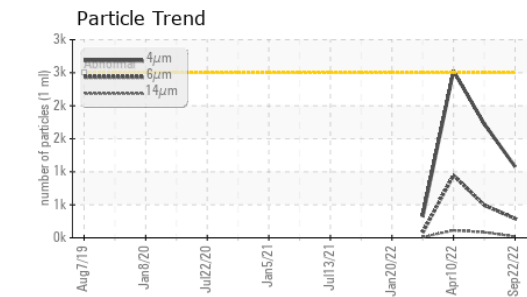
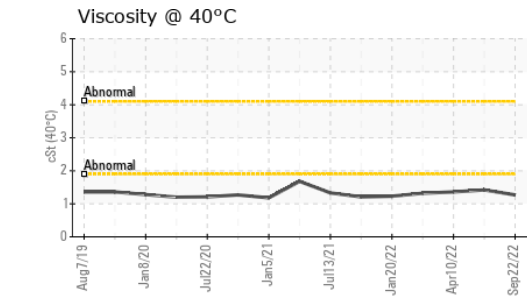
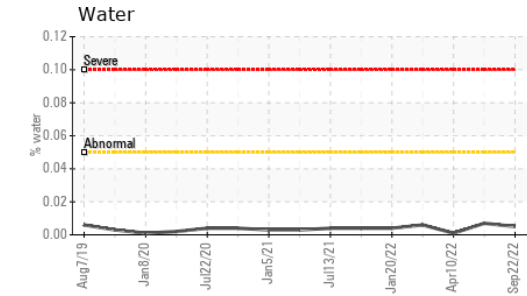
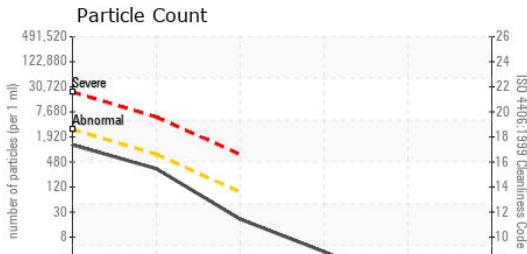
method	limit/base	current	history1	history2
API Gravity	ASTM D7777	44.7	44.9	44.5
Cetane Index	ASTM D4737 <40.0	47.8	48.2	46.8

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m <1.0	0	1	<1
Sodium	ppm ASTM D5185m <0.1	0	0	0
Potassium	ppm ASTM D5185m <0.1	0	<1	0
Water	% ASTM D6304 <0.05	0.005	0.007	0.001
ppm Water	ppm ASTM D6304 <500	59.1	71.8	14.9
% Gasoline	% *In-House <0.50	0.0	0.0	0.0
% Biodiesel	% *In-House <20.0	0.0	0.0	0.0



FUEL REPORT



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	1078	1725	2526
Particles >6µm	ASTM D7647	>640	292	495	947
Particles >14µm	ASTM D7647	>80	18	84	112
Particles >21µm	ASTM D7647	>20	3	27	20
Particles >38µm	ASTM D7647	>4	0	1	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	17/15/11	18/16/14	19/17/14

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m <0.1	0	0	<1
Nickel	ppm	ASTM D5185m <0.1	0	<1	0
Lead	ppm	ASTM D5185m <0.1	0	0	0
Vanadium	ppm	ASTM D5185m <0.1	0	0	0
Iron	ppm	ASTM D5185m <0.1	0	0	0
Calcium	ppm	ASTM D5185m <0.1	0	0	0
Magnesium	ppm	ASTM D5185m <0.1	0	0	0
Phosphorus	ppm	ASTM D5185m <0.1	2	1	0
Zinc	ppm	ASTM D5185m <0.1	0	0	0

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WCDF04785 **Received** : 22 Sep 2022
Lab Number : **05648701** **Diagnosed** : 28 Sep 2022
Unique Number : 10143240 **Diagnostician** : Doug Bogart
Test Package : DF-2 (Additional Tests: API, CC Flash, Cetane, Color-ASTM, Fuel, GC-PercFuel, ICP, KF, KV40, PriCou

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 US 27705
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 F:

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)