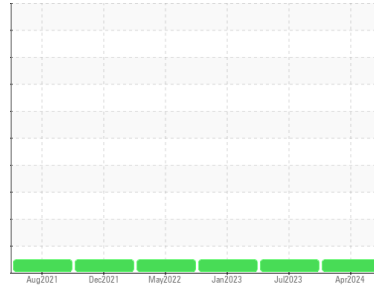




FUEL REPORT

Sample Rating Trend



NORMAL



Machine Id
TANK 019
 Component
Tank Jet Fuel
 Fluid
F24 (10000 GAL)

DIAGNOSIS

Recommendation

All laboratory tests indicate that this sample meets specifications for Jet-A fuel.

Wear

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

Contamination

The water content is negligible. There is no Bacteria, Yeast and/or Fungus 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

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0826965	WC0710463	WC0710458
Sample Date	Client Info			15 Apr 2024	17 Jul 2023	11 Jan 2023
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		0.808	0.805	0.803
Fuel Color	text	*Visual Screen		Clear	Clear	Clear
ASTM Color	scalar	*ASTM D1500		L0.5	0.5	L3.5
Visc @ 40°C	cSt	ASTM D445		1.5	1.37	1.34
Pensky-Martens Flash Point	°C	*PMCC Calculated		55	54	54
Cloud Point	°C	ASTM D5771		-44	-47	-48
Pour Point	°C	ASTM D5950		-40	-45	-45

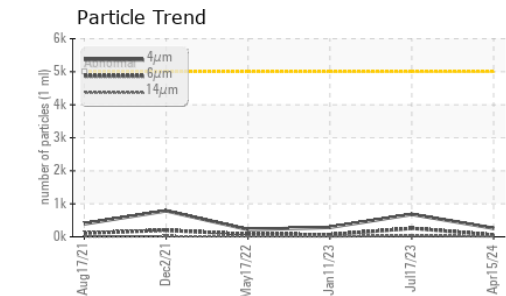
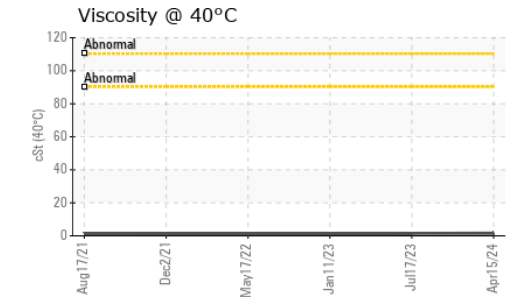
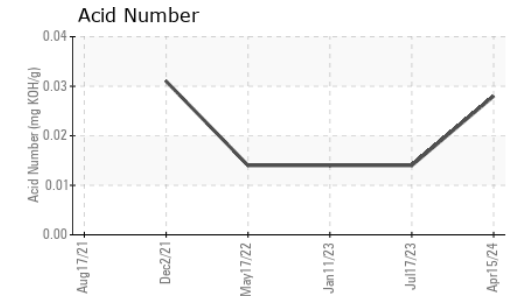
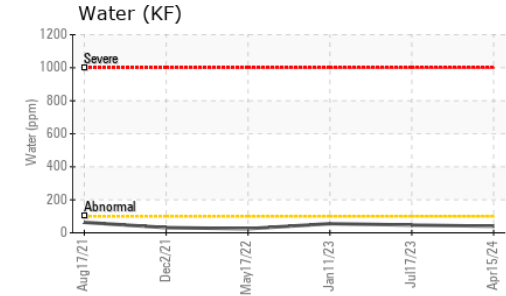
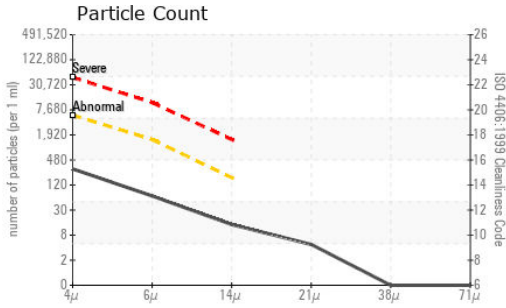
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		347	563	635
Sulfur (UVF)	ppm	ASTM D5453		264	414	304

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		152	146	148
5% Distillation Point	°C	ASTM D86		175	170	170
10% Distill Point	°C	ASTM D86		183	176	176
15% Distillation Point	°C	ASTM D86		188	181	181
20% Distill Point	°C	ASTM D86		192	185	186
30% Distill Point	°C	ASTM D86		200	192	193
40% Distill Point	°C	ASTM D86		207	201	200
50% Distill Point	°C	ASTM D86		214	209	208
60% Distill Point	°C	ASTM D86		221	217	216
70% Distill Point	°C	ASTM D86		228	225	225
80% Distill Point	°C	ASTM D86		236	235	234
85% Distillation Point	°C	ASTM D86		241	241	240
90% Distill Point	°C	ASTM D86		246	248	247
95% Distillation Point	°C	ASTM D86		254	259	257
Final Boiling Point	°C	ASTM D86		262	271	268
Distillation Residue	%	ASTM D86		1.2	1.2	1.2
Distillation Loss	%	ASTM D86		0.9	0.6	0.6

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		43.6	44.3	44.7
Cetane Index		ASTM D4737	<40.0	47.4	47.1	48.2



FUEL REPORT



CONTAMINANTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	<1.0	0	0	<1
Sodium	ppm	ASTM D5185m	<0.1	1	0	0
Potassium	ppm	ASTM D5185m	<0.1	7	0	0
Water	%	ASTM D6304	<0.05	0.003	0.004	0.005
ppm Water	ppm	ASTM D6304	<500	40	47.0	55.5
% Gasoline	%	*In-House	<0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	0.0	0.0

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	258	682	286
Particles >6µm	ASTM D7647	>1300	58	258	68
Particles >14µm	ASTM D7647	>160	12	28	12
Particles >21µm	ASTM D7647	>40	4	7	5
Particles >38µm	ASTM D7647	>10	0	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	15/13/11	17/15/12	15/13/11

HEAVY METALS	method	limit/base	current	history1	history2	
Aluminum	ppm	ASTM D5185m	<0.1	0	<1	0
Nickel	ppm	ASTM D5185m	<0.1	0	0	0
Lead	ppm	ASTM D5185m	<0.1	0	0	0
Vanadium	ppm	ASTM D5185m	<0.1	0	<1	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	<1	0
Phosphorus	ppm	ASTM D5185m	<0.1	<1	0	5
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. : WC0826965
Lab Number : **06150861**
Unique Number : 10980939
Test Package : DF-3 (Additional Tests: API, CC Flash, Cetane, CldPt, Color-ASTM, Fuel, GC-PercFuel, GCD, ICP)

BAE SYSTEMS
 1100 BAIRS RD
 YORK, PA
 US 17408
 Contact: DOUG RUSSO
 doug.russo@baesystems.com

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)