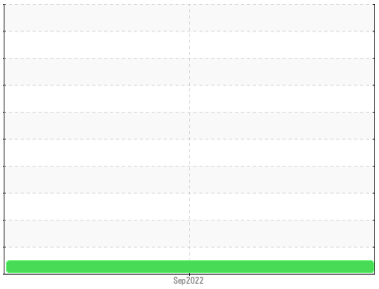
FUEL REPORT

Sample Rating Trend



NORMAL

Machine Id
ELGIN F24 TANK 022
Component
Tank Jet Fuel
Fluid
F24 FUEL (300 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 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		**WC0710457**	---	---
Sample Date		Client Info		**27 Sep 2022**	---	---
Machine Age	mls	Client Info		**0**	---	---
Oil Age	mls	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**NORMAL**	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		**0.807**	---	---
Fuel Color	text	*Visual Screen		**Clear**	---	---
ASTM Color	scalar	*ASTM D1500		**L0.5**	---	---
Visc @ 40°C	cSt	ASTM D445		**1.39**	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		**50**	---	---
Cloud Point	°C	ASTM D5771		**-48**	---	---
Pour Point	°C	ASTM D5950		**-48**	---	---

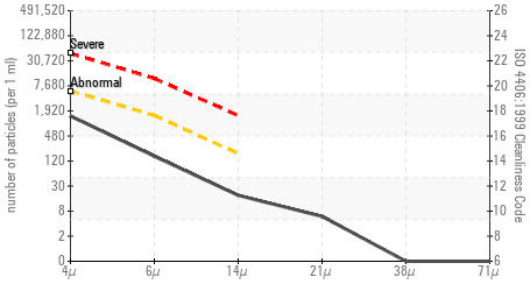
SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		**606**	---	---
Sulfur (UVF)	ppm	ASTM D5453		**565**	---	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		**148**	---	---
5% Distillation Point	°C	ASTM D86		**170**	---	---
10% Distill Point	°C	ASTM D86		**176**	---	---
15% Distillation Point	°C	ASTM D86		**180**	---	---
20% Distill Point	°C	ASTM D86		**185**	---	---
30% Distill Point	°C	ASTM D86		**193**	---	---
40% Distill Point	°C	ASTM D86		**201**	---	---
50% Distill Point	°C	ASTM D86		**209**	---	---
60% Distill Point	°C	ASTM D86		**217**	---	---
70% Distill Point	°C	ASTM D86		**226**	---	---
80% Distill Point	°C	ASTM D86		**237**	---	---
85% Distillation Point	°C	ASTM D86		**343**	---	---
90% Distill Point	°C	ASTM D86		**250**	---	---
95% Distillation Point	°C	ASTM D86		**261**	---	---
Final Boiling Point	°C	ASTM D86		**274**	---	---
Distillation Residue	%	ASTM D86		**1.2**	---	---
Distillation Loss	%	ASTM D86		**0.3**	---	---

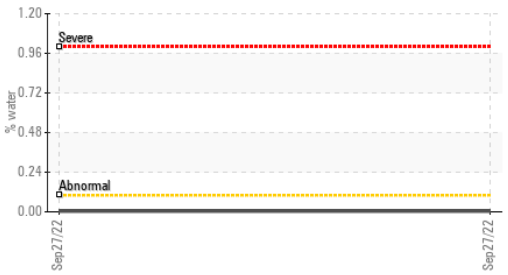
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		**43.8**	---	---
Cetane Index		ASTM D4737	<40.0	**46.3**	---	---

FUEL REPORT

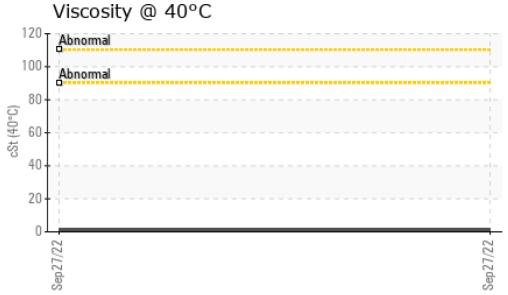
Particle Count



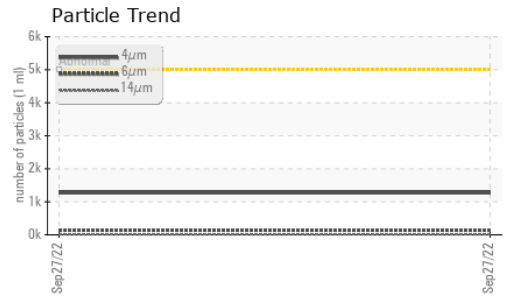
Water



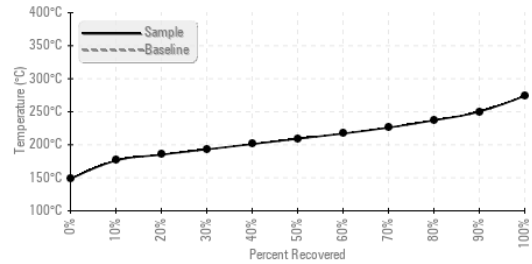
Viscosity @ 40°C



Particle Trend



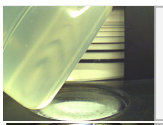
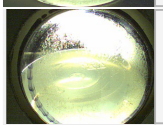
Fuel Distillation Curve



CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	**0**	---	---
Sodium	ppm	ASTM D5185m	<0.1	**0**	---	---
Potassium	ppm	ASTM D5185m	<0.1	**<1**	---	---
Water	%	ASTM D6304	<0.05	**0.004**	---	---
ppm Water	ppm	ASTM D6304	<500	**42.7**	---	---
% Gasoline	%	*In-House	<0.50	**0.0**	---	---
% Biodiesel	%	*In-House	<20.0	**0.0**	---	---

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	**1273**	---	---
Particles >6µm	ASTM D7647	>1300	**138**	---	---
Particles >14µm	ASTM D7647	>160	**16**	---	---
Particles >21µm	ASTM D7647	>40	**5**	---	---
Particles >38µm	ASTM D7647	>10	**0**	---	---
Particles >71µm	ASTM D7647	>3	**0**	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	**17/14/11**	---	---

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

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0710457 **Received** : 29 Sep 2022
Lab Number : 05654426 **Diagnosed** : 05 Oct 2022
Unique Number : 10153978 **Diagnostician** : Doug Bogart
Test Package : DF-3 (Additional Tests: API, CC Flash, Cetane, CldPt, Color-ASTM, Fuel, GC-PercFuel, ICP, KF, KV40,

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)

BAE SYSTEMS
1100 BAIRS RD
YORK, PA
US 17408
Contact: DOUG RUSSO
doug.russo@baesystems.com
T: (717)524-0737
F: (717)225-8311