

# **FUEL REPORT**

# ELGIN F24 TANK 019

Component

**Tank Jet Fuel** 

F24 FUEL (10000 GAL)

# Sample Rating Trend

# **NORMAL**

### Recommendation

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

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.

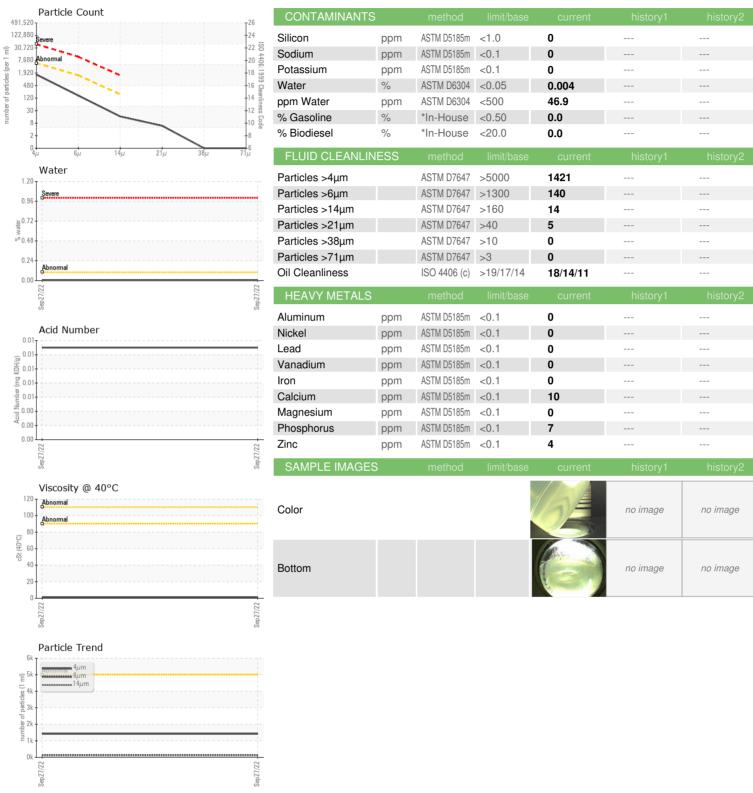
## **Fluid Condition**

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

Sample Number	SAMPLE INFORM	MOITA	method	limit/base	current	history1	history2
Machine Age         mls         Client Info         0	Sample Number		Client Info		WC0710456		
Oil Age         mls         Client Info         N/A	Sample Date		Client Info		27 Sep 2022		
Oil Changed   Client Info   N/A	Machine Age	mls	Client Info		0		
Sample Status	Oil Age	mls	Client Info		0		
PHYSICAL PROPERTIES   method   limit/base   current   history1   history2	Oil Changed		Client Info		N/A		
Specific Gravity	Sample Status				NORMAL		
Fuel Color	PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
ASTM Color	Specific Gravity		*ASTM D1298		0.807		
Visc @ 40°C         CSt         ASTM D445         1.37             Pensky-Martens Flash Point         °C         'PMcC Calculated         50             Cloud Point         °C         ASTM D5771         -47             Pour Point         °C         ASTM D5950         -47             SULFUR CONTENT         method         limit/base         current         history1         history2           Sulfur         ppm         ASTM D5185m         596             Sulfur (UVF)         ppm         ASTM D5453         565             DISTILLATION         method         limit/base         current         history1         history2           Initial Boiling Point         °C         ASTM D86         150             10% Distill Boint         °C         ASTM D86         171             15% Distillation Point         °C         ASTM D86         180             15% Distill Point         °C         ASTM D86         192             20% Distill Point	Fuel Color	text	*Visual Screen		Clear		
Pensky-Martens Flash Point   °C   PMCC Calculated   50       Cloud Point   °C   ASTM D5771   -47         Pour Point   °C   ASTM D5950   -47         Pour Point   °C   ASTM D5950   -47         Pour Point   °C   ASTM D5950   -47         Pour Point   Pour Point Pour Point   Pour Point   Pour Point Point Point   Pour Point Point Point   Pour Point Point Point Point Point Point Point   Pour Point P	ASTM Color	scalar	*ASTM D1500		L0.5		
Cloud Point         °C         ASTM D5771         -47             Pour Point         °C         ASTM D5950         -47             SULFUR CONTENT         method         limit/base         current         history1         history2           Sulfur (UVF)         ppm         ASTM D5185m         596             Sulfur (UVF)         ppm         ASTM D5453         565             DISTILLATION         method         limit/base         current         history1         history2           Initial Boiling Point         °C         ASTM D86         150             DiStill Boiling Point         °C         ASTM D86         171             10% Distill Point         °C         ASTM D86         180             20% Distill Point         °C         ASTM D86         185             30% Distill Point         °C         ASTM D86         201             50% Distill Point         °C         ASTM D86         217 <td>Visc @ 40°C</td> <td>cSt</td> <td>ASTM D445</td> <td></td> <td>1.37</td> <td></td> <td></td>	Visc @ 40°C	cSt	ASTM D445		1.37		
Pour Point   °C   ASTM D5950   -47         SULFUR CONTENT   method   limit/base   current   history1   history2     Sulfur   ppm   ASTM D5185m   596         Sulfur (UVF)   ppm   ASTM D5453   5665         DISTILLATION   method   limit/base   current   history1   history2     Initial Boiling Point   °C   ASTM D86   150         15% Distillation Point   °C   ASTM D86   171         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   192         40% Distill Point   °C   ASTM D86   192         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   236         85% Distillation Point   °C   ASTM D86   242         90% Distill Point   °C   ASTM D86   249         95% Distillation Point   °C   ASTM D86   259         Final Boiling Point   °C   ASTM D86   274         Distillation Residue   %   ASTM D86   1.2         IGNITION QUALITY   method   limit/base   current   history1   history2   ASTM D7777   43.8	Pensky-Martens Flash Point	°C	*PMCC Calculated		50		
SULFUR CONTENT         method         limit/base         current         history1         history2           Sulfur         ppm         ASTM D5185m         596             Sulfur (UVF)         ppm         ASTM D5453         565             DISTILLATION         method         limit/base         current         history1         history2           Initial Boiling Point         °C         ASTM D86         150             5% Distillation Point         °C         ASTM D86         176             10% Distill Point         °C         ASTM D86         180             15% Distill Point         °C         ASTM D86         185             20% Distill Point         °C         ASTM D86         192             30% Distill Point         °C         ASTM D86         201             40% Distill Point         °C         ASTM D86         209             50% Distill Point         °C         ASTM D86         217             80% Distill Point         °	Cloud Point	°C	ASTM D5771		-47		
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DISTILLATION	Sulfur	ppm	ASTM D5185m		596		
Initial Boiling Point	Sulfur (UVF)	ppm	ASTM D5453		565		
5% Distillation Point         °C         ASTM D86         171             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         192             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         236             85% Distillation Point         °C         ASTM D86         242             90% Distill Point         °C         ASTM D86         259             95% Distillation Point         °C	DISTILLATION		method	limit/base	current	history1	history2
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         192             40% Distill Point         °C         ASTM D86         201             50% Distill Point         °C         ASTM D86         209             60% Distill Point         °C         ASTM D86         217             80% Distill Point         °C         ASTM D86         226             85% Distillation Point         °C         ASTM D86         242             90% Distill Point         °C         ASTM D86         249             95% Distillation Point         °C         ASTM D86         259             95% Distillation Residue         %         ASTM D86         1.2             Distillation Loss         %	Initial Boiling Point	°C	ASTM D86		150		
15% Distillation Point         °C         ASTM D86         180             20% Distill Point         °C         ASTM D86         185             30% Distill Point         °C         ASTM D86         192             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         242             95% Distillation Point         °C         ASTM D86         249             95% Distillation Point         °C         ASTM D86         259             Final Boiling Point         °C         ASTM D86         274             Distillation Loss         %         ASTM D86         1.2             IGNITION QUALITY         method	5% Distillation Point	°C	ASTM D86		171		
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30% Distill Point         °C         ASTM D86         192             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         242             90% Distill Point         °C         ASTM D86         249             95% Distillation Point         °C         ASTM D86         259             Final Boiling Point         °C         ASTM D86         274             Distillation Residue         %         ASTM D86         1.2             Distillation Loss         %         ASTM D86         -0.5             IGNITION QUALITY         method         limit/base         current         history1         history2	15% Distillation Point	°C	ASTM D86		180		
40% Distill Point	20% Distill Point	°C	ASTM D86		185		
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Distillation Residue         %         ASTM D86         1.2             Distillation Loss         %         ASTM D86         -0.5             IGNITION QUALITY         method         limit/base         current         history1         history2           API Gravity         ASTM D7777         43.8	95% Distillation Point	°C	ASTM D86		259		
Distillation Loss % ASTM D86 -0.5  IGNITION QUALITY method limit/base current history1 history2  API Gravity ASTM D7777 43.8	Final Boiling Point	°C	ASTM D86		274		
IGNITION QUALITY method limit/base current history1 history2  API Gravity ASTM D7777 43.8	Distillation Residue	%	ASTM D86		1.2		
API Gravity ASTM D7777 43.8	Distillation Loss	%	ASTM D86		-0.5		
	IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
Cetane Index ASTM D4737 <40.0 46.3	API Gravity		ASTM D7777		43.8		
	Cetane Index		ASTM D4737	<40.0	46.3		



## **FUEL REPORT**





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: WC0710456 : 05654425

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Sep 2022 Diagnosed : 10153977

: 05 Oct 2022 Diagnostician : Doug Bogart

Test Package : DF-3 ( Additional Tests: API, CC Flash, Cetane, CldPt, Color-ASTM, Fuel, GC-PercFuel, ICP, KF, KV40, Contact: DOUG RUSSO

To discuss this sample report, contact Customer Service at 1-800-237-1369.

doug.russo@baesystems.com T: (717)524-0737

Contact/Location: DOUG RUSSO - BAEYOR

\* - 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)

F: (717)225-8311

**BAE SYSTEMS** 

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