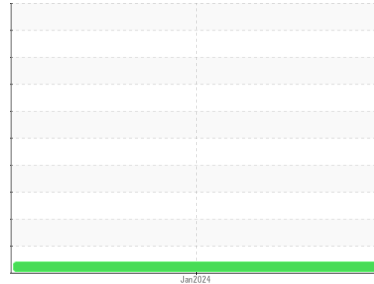




# FUEL REPORT

Sample Rating Trend

VIS DEBRIS



Machine Id

## F24 - RETURN TANK

Component

Jet Fuel

Fluid

JET FUEL Type A (--- GAL)

### DIAGNOSIS

#### Recommendation

We advise that you filter this fluid before use. All other laboratory tests indicate that this sample meets specifications for Jet-A fuel. We were unable to perform a particle count due to a high concentration of particles present in this sample.

#### Wear

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

#### Contamination

Moderate concentration of visible dirt/debris present in the fuel. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) present in the sample.

#### 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		WC0826975	---	---
Sample Date	Client Info		11 Jan 2024	---	---
Machine Age	mls	Client Info	0	---	---
Oil Age	mls	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

### PHYSICAL PROPERTIES

	method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298		0.805	---	---
Fuel Color	text *Visual Screen		Yellow	---	---
ASTM Color	scalar *ASTM D1500		L3.0	---	---
Visc @ 40°C	cSt ASTM D445	<8.0	1.33	---	---
Pensky-Martens Flash Point	°C *PMCC Calculated	38	55	---	---
Cloud Point	°C ASTM D5771		-48	---	---
Pour Point	°C ASTM D5950	-45	-52	---	---

### SULFUR CONTENT

	method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185m	<3000	591	---	---
Sulfur (UVF)	ppm ASTM D5453		471	---	---

### DISTILLATION

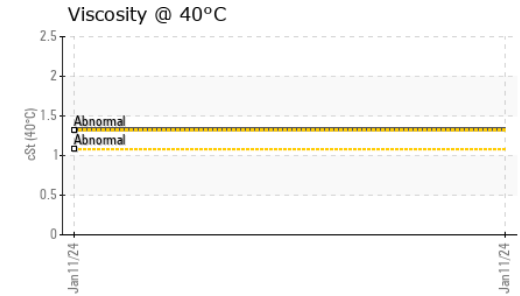
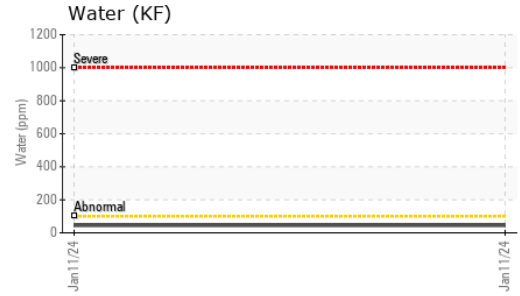
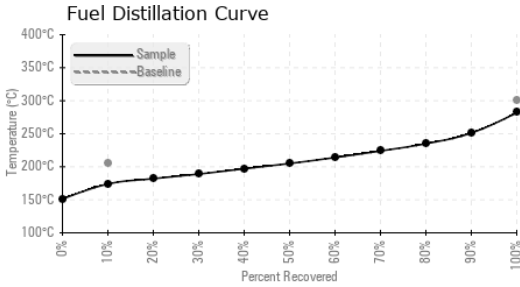
	method	limit/base	current	history1	history2
Initial Boiling Point	°C ASTM D86		151	---	---
5% Distillation Point	°C ASTM D86		170	---	---
10% Distill Point	°C ASTM D86	205	174	---	---
15% Distillation Point	°C ASTM D86		178	---	---
20% Distill Point	°C ASTM D86		182	---	---
30% Distill Point	°C ASTM D86		189	---	---
40% Distill Point	°C ASTM D86		197	---	---
50% Distill Point	°C ASTM D86		205	---	---
60% Distill Point	°C ASTM D86		214	---	---
70% Distill Point	°C ASTM D86		224	---	---
80% Distill Point	°C ASTM D86		235	---	---
85% Distillation Point	°C ASTM D86		242	---	---
90% Distill Point	°C ASTM D86		251	---	---
95% Distillation Point	°C ASTM D86		265	---	---
Final Boiling Point	°C ASTM D86	300	282	---	---
Distillation Residue	% ASTM D86	1.5	1.2	---	---
Distillation Loss	% ASTM D86	1.5	0.7	---	---

### IGNITION QUALITY

	method	limit/base	current	history1	history2
API Gravity	ASTM D7777	44	44.3	---	---
Cetane Index	ASTM D4737	<40.0	46.2	---	---





# FUEL REPORT



CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m <1.0	<b>2</b>	---	---
Sodium	ppm	ASTM D5185m <0.1	<b>1</b>	---	---
Potassium	ppm	ASTM D5185m <0.1	<b>0</b>	---	---
Water	%	ASTM D6304 <0.05	<b>0.004</b>	---	---
ppm Water	ppm	ASTM D6304 <500	<b>45</b>	---	---
% Gasoline	%	*In-House <0.50	<b>0.0</b>	---	---
% Biodiesel	%	*In-House <20.0	<b>0.0</b>	---	---

MICROBIAL	method	limit/base	current	history1	history2
Bacteria	CFU/ml	WC-Method >=100000	<b>0</b>	---	---
Yeast	CFU/ml	WC-Method >=100000	<b>0</b>	---	---
Mold	Colonies	WC-Method MODER	<b>---</b>	---	---

HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m <0.1	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m <0.1	<b>0</b>	---	---
Lead	ppm	ASTM D5185m <0.1	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m <0.1	<b>&lt;1</b>	---	---
Iron	ppm	ASTM D5185m <0.1	<b>0</b>	---	---
Calcium	ppm	ASTM D5185m <0.1	<b>10</b>	---	---
Magnesium	ppm	ASTM D5185m <0.1	<b>0</b>	---	---
Phosphorus	ppm	ASTM D5185m <0.1	<b>10</b>	---	---
Zinc	ppm	ASTM D5185m <0.1	<b>12</b>	---	---

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0826975 **Received** : 12 Jan 2024  
**Lab Number** : **06060530** **Diagnosed** : 05 Feb 2024  
**Unique Number** : 10831912 **Diagnostician** : Doug Bogart  
**Test Package** : DF-3 ( Additional Tests: API, BACTERIA, CC Flash, Cetane, CldPt, Color-ASTM, Fuel, GC-PercFuel, ICP,

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

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)