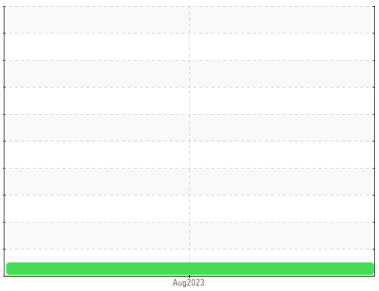
FUEL REPORT

Sample Rating Trend



NORMAL

Machine Id
[N111NH] EMBRAER EMB190 N111NH
Component
Right Jet Fuel
Fluid
JET FUEL Type A (--- GAL)

DIAGNOSIS

Recommendation
Laboratory test indicate that this fuel is suitable for use and meets all test requirements. Resample at the next service interval to monitor.

Wear
{not applicable}

Contamination
There is no bacteria or fungus (yeast and/or mold) present in the sample. The water content is negligible. The fuel phase was tested for microbes, as there was no separate water phase present in the sample. The MicrobMonitor2 test kit was used to test for microbiological contamination in the sample. There is no indication of any contamination in the jet fuel.

Fluid Condition
All laboratory tests indicate that this sample appears to be Jet Fuel Type A.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC961528**	---	---
Sample Date		Client Info		**25 Aug 2023**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**Not Changd**	---	---
Sample Status				**NORMAL**	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*		**0.801**	---	---
Fuel Color	text	Visual Screen*		**Clear**	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	<8.0	**1.3**	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	38	**47.8**	---	---
Pour Point	°C	ASTM D97*	-45	**-54**	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	<3000	**986**	---	---

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*		**155**	---	---
5% Distillation Point	°C	ASTM D2887*		**173**	---	---
10% Distill Point	°C	ASTM D2887*	205	**178**	---	---
15% Distillation Point	°C	ASTM D2887*		**184**	---	---
20% Distill Point	°C	ASTM D2887*		**189**	---	---
30% Distill Point	°C	ASTM D2887*		**196**	---	---
40% Distill Point	°C	ASTM D2887*		**204**	---	---
50% Distill Point	°C	ASTM D2887*		**211**	---	---
60% Distill Point	°C	ASTM D2887*		**218**	---	---
70% Distill Point	°C	ASTM D2887*		**224**	---	---
80% Distill Point	°C	ASTM D2887*		**233**	---	---
85% Distillation Point	°C	ASTM D2887*		**240**	---	---
90% Distill Point	°C	ASTM D2887*		**246**	---	---
95% Distillation Point	°C	ASTM D2887*		**258**	---	---
Final Boiling Point	°C	ASTM D2887*	300	**284**	---	---

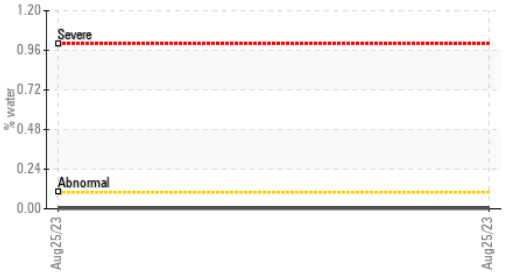
IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	44	**45**	---	---
Cetane Index		ASTM D4737*	<40.0	**49**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	**0**	---	---
Sodium	ppm	ASTM D5185(m)	<0.1	**<1**	---	---
Potassium	ppm	ASTM D5185(m)	<0.1	**0**	---	---
Water	%	ASTM D6304*	<0.05	**0.003**	---	---
ppm Water	ppm	ASTM D6304*	<500	**29.4**	---	---

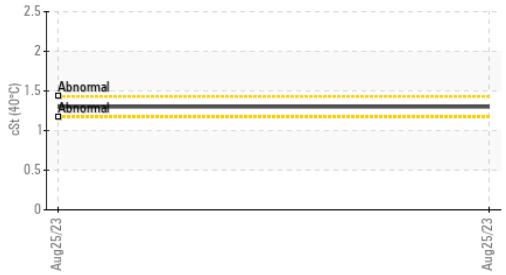
MICROBIAL		method	limit/base	current	history1	history2
Microbes	CFU/L	ASTM D6469*	>=100000	**0**	---	---

FUEL REPORT

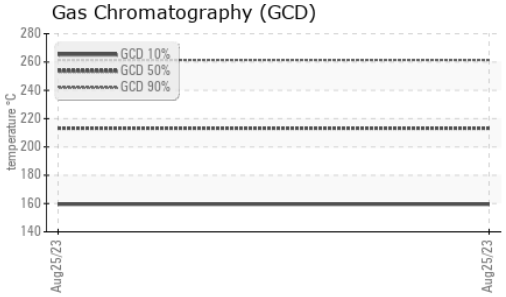
Water



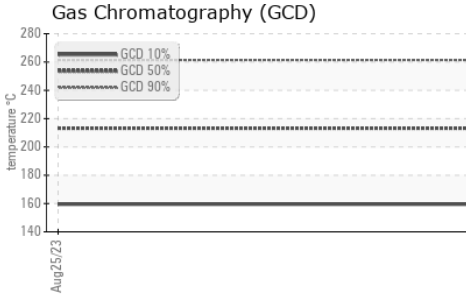
Viscosity @ 40°C



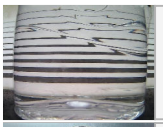
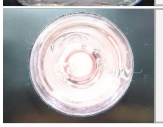
Gas Chromatography (GCD)



Gas Chromatography (GCD)

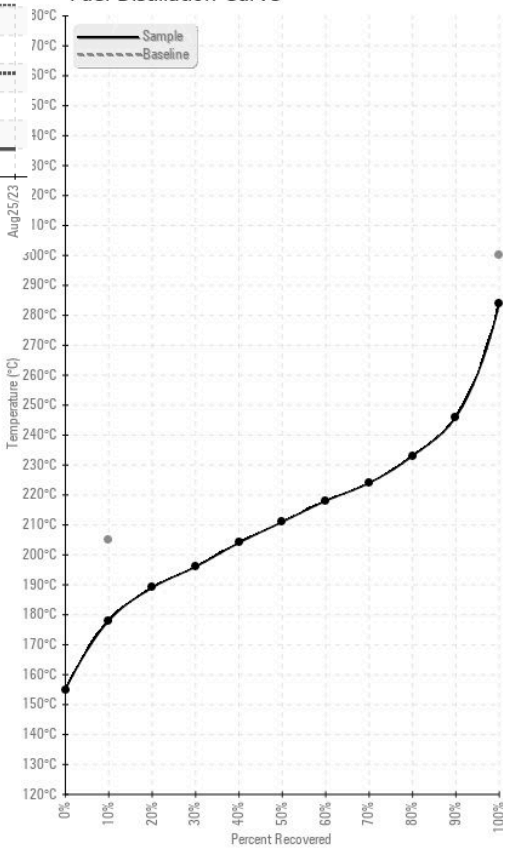


HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	**0**	---	---
Nickel	ppm	ASTM D5185(m)	<0.1	**0**	---	---
Lead	ppm	ASTM D5185(m)	<0.1	**0**	---	---
Vanadium	ppm	ASTM D5185(m)	<0.1	**0**	---	---
Iron	ppm	ASTM D5185(m)	<0.1	**<1**	---	---
Calcium	ppm	ASTM D5185(m)	<0.1	**0**	---	---
Magnesium	ppm	ASTM D5185(m)	<0.1	**0**	---	---
Phosphorus	ppm	ASTM D5185(m)	<0.1	**0**	---	---
Zinc	ppm	ASTM D5185(m)	<0.1	**0**	---	---

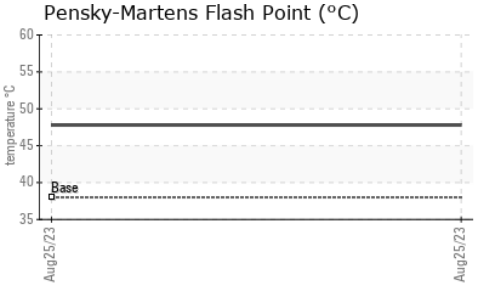
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

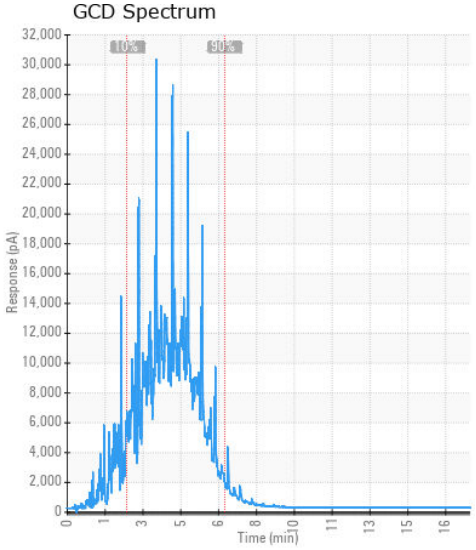
Fuel Distillation Curve



Pensky-Martens Flash Point (°C)



GCD Spectrum



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC961528 **Received** : 06 Sep 2023
Lab Number : 02580804 **Diagnosed** : 11 Sep 2023
Unique Number : 5633864 **Diagnostician** : Kevin Marson
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel)

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CA N0M 1Y0
Contact: Jodie Gilliland
jgilliland@NewUnitedGoderich.com
T: (519)228-6868
F: (519)228-6969

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.