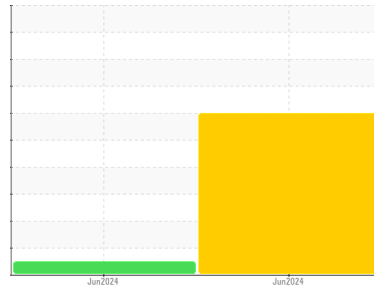




# FUEL REPORT

Sample Rating Trend



CONTAMINANT



Machine Id  
**Dehavliand Q400 816 left fuel tank**  
 Component  
**Tank Jet Fuel**  
 Fluid  
**JET FUEL Type A (3379 LTR)**

## DIAGNOSIS

### ▲ Recommendation

We advise that you inspect the fuel tank for signs of corrosion and remove any heavy microbiological contamination manually. We recommend you service and check the fuel filters for mucous-like deposits. Check with fuel supplier for biocides available to destroy the microorganisms in the fuel system. Recommend resampling in 10 days. Resample at the next service interval to monitor. ( Customer Sample Comment: Please check for water and bacterial growth )

### ▲ Contamination

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. Excessively high bacteria counts.

### Fluid Condition

The fuel is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0653006</b>	WC0653007	---
Sample Date	Client Info		<b>20 Jun 2024</b>	20 Jun 2024	---
Machine Age	mths	Client Info	<b>0</b>	0	---
Oil Age	mths	Client Info	<b>6</b>	0	---
Oil Changed	Client Info		<b>Not Chngd</b>	N/A	---
Sample Status			<b>SEVERE</b>	NORMAL	---

## PHYSICAL PROPERTIES

	method	limit/base	current	history1	history2
Specific Gravity	ASTM D1298*		<b>0.805</b>	0.805	---
Fuel Color	text	Visual Screen*	<b>Clear</b>	Clear	---
Visc @ 40°C	cSt	ASTM D7279(m)	<b>7</b>	4.1	---
Pensky-Martens Flash Point	°C	ASTM D7215*	<b>38</b>	43.6	---
Pour Point	°C	ASTM D97*	<b>-60</b>	-60	---

## SULFUR CONTENT

	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	<b>496</b>	493	---

## DISTILLATION

	method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	<b>152</b>	152	---
5% Distillation Point	°C	ASTM D2887*	<b>166</b>	166	---
10% Distill Point	°C	ASTM D2887*	<b>172</b>	172	---
15% Distillation Point	°C	ASTM D2887*	<b>176</b>	176	---
20% Distill Point	°C	ASTM D2887*	<b>180</b>	180	---
30% Distill Point	°C	ASTM D2887*	<b>188</b>	189	---
40% Distill Point	°C	ASTM D2887*	<b>197</b>	198	---
50% Distill Point	°C	ASTM D2887*	<b>206</b>	207	---
60% Distill Point	°C	ASTM D2887*	<b>216</b>	216	---
70% Distill Point	°C	ASTM D2887*	<b>225</b>	226	---
80% Distill Point	°C	ASTM D2887*	<b>238</b>	239	---
85% Distillation Point	°C	ASTM D2887*	<b>248</b>	250	---
90% Distill Point	°C	ASTM D2887*	<b>258</b>	260	---
95% Distillation Point	°C	ASTM D2887*	<b>275</b>	280	---
Final Boiling Point	°C	ASTM D2887*	<b>324</b>	327	---

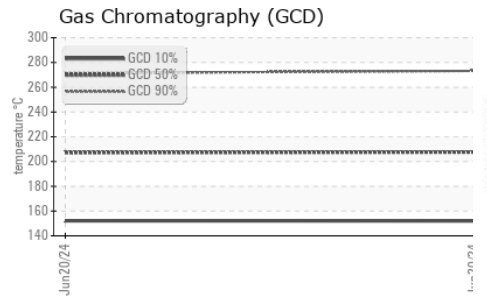
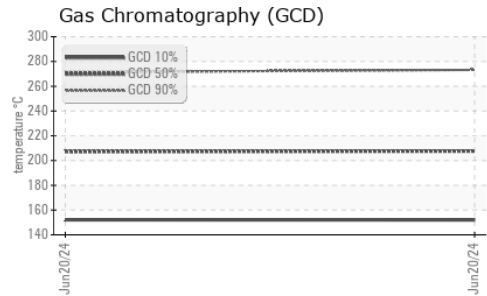
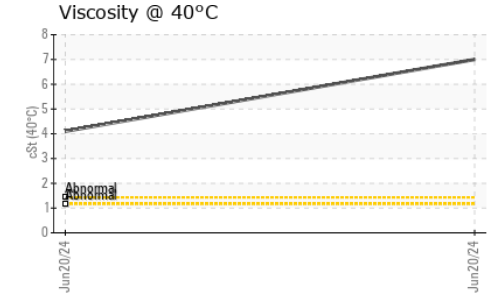
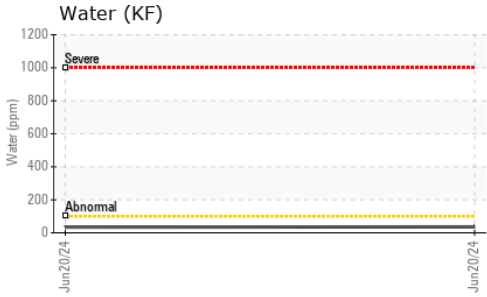
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<b>0</b>	0	---
Sodium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Potassium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Water	%	ASTM D6304*	<b>0.003</b>	0.003	---
ppm Water	ppm	ASTM D6304*	<b>36</b>	34	---

## MICROBIAL

	method	limit/base	current	history1	history2
Microbes	CFU/L	ASTM D6469*	<b>&gt;=100000 ▲ 20000</b>	0	---

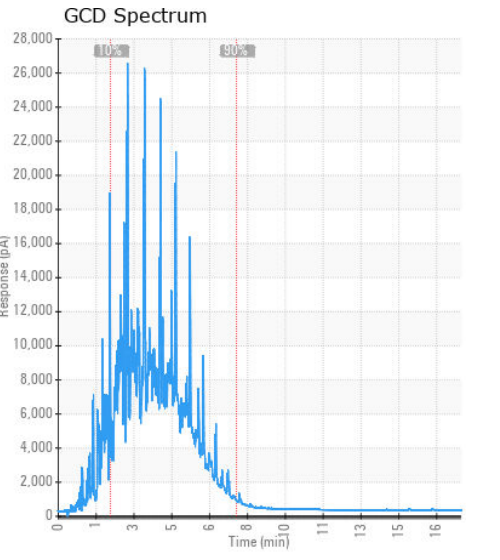
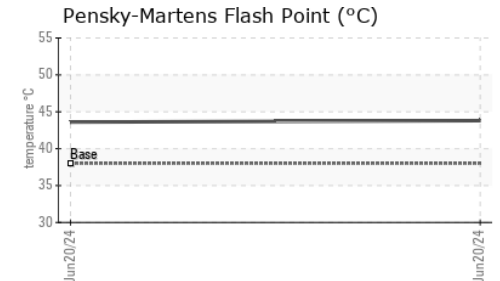
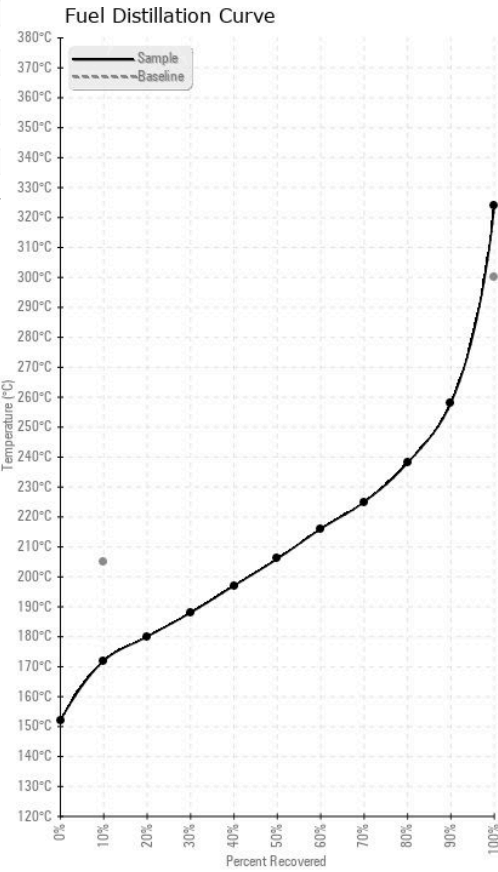
# FUEL REPORT



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

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

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0653006 **Received** : 21 Jun 2024  
**Lab Number** : 02643549 **Tested** : 25 Jun 2024  
**Unique Number** : 5801088 **Diagnosed** : 25 Jun 2024 - Bill Quesnel  
**Test Package** : FUEL ( Additional Tests: CC Flash )

**PORTER AIRLINES INC**  
 BILLY BISHOP TORONTO CITY AIRPORT, HANGAR 5  
 TORONTO, ON  
 CA M5V 1A1  
 Contact: Jason Thibault  
 jason.thibault@flyporter.com  
 T: (647)454-7933  
 F: (416)203-9198

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.