



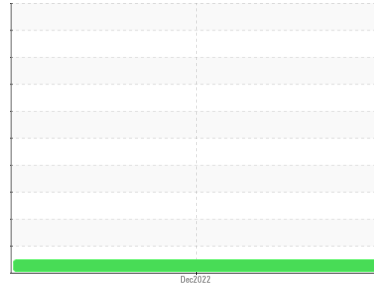
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(C-FWAU)**  
 Machine Id  
**[C-FWAU] BEEHCRAFT 1900D GG-PS0001**  
 Component  
**Left Jet Turbine**  
 Fluid  
**BP TURBO OIL 2380 (14 LTR)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal. The direct-reading & analytical ferrographic results are normal indicating no abnormal wear in the system.

### Contaminants

There is no indication of any contamination in the oil.

### Oil Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0759277</b>	---	---
Sample Date	Client Info		<b>21 Dec 2022</b>	---	---
TSN	hrs	Client Info	<b>23441</b>	---	---
TSO	hrs	Client Info	<b>4595</b>	---	---
Oil Age	hrs	Client Info	<b>4595</b>	---	---
Oil Changed		Client Info	<b>Not Chngd</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>0</b>	---	---
Iron	ppm	ASTM D5185(m) >8	<b>1</b>	---	---
Chromium	ppm	ASTM D5185(m) >2	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m) >2	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m) >2	<b>0</b>	---	---
Lead	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m) >3	<b>0</b>	---	---
Tin	ppm	ASTM D5185(m) >2	<b>0</b>	---	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	---	---
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	---	---
Calcium	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 2500	<b>2822</b>	---	---
Zinc	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	---	---
Sulfur	ppm	ASTM D5185(m) 0	<b>2</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

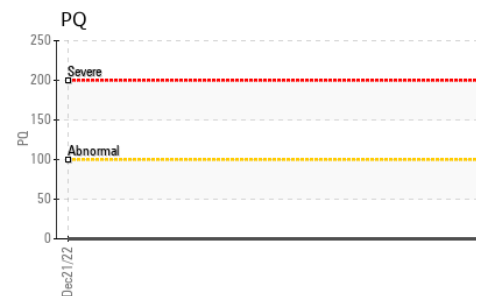
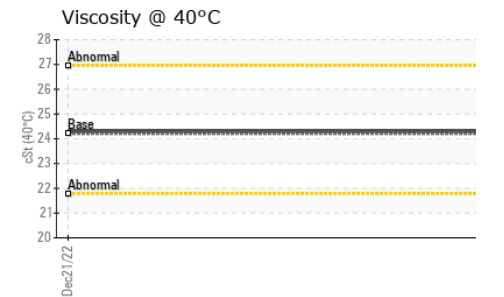
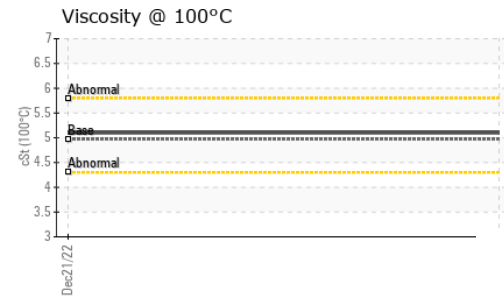
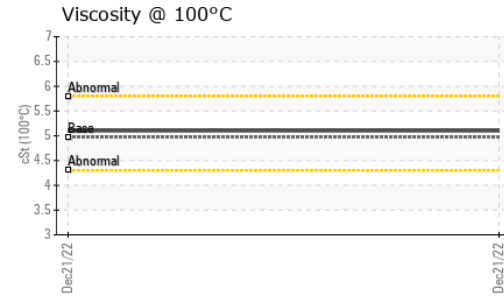
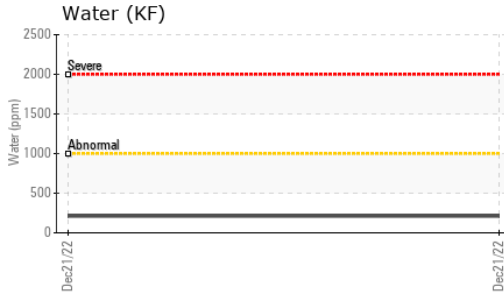
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >8	<b>2</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>1</b>	---	---
Water	%	ASTM D6304* >0.1	<b>0.021</b>	---	---
ppm Water	ppm	ASTM D6304* >1000	<b>211.6</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.43	<b>0.27</b>	---	---



# OIL ANALYSIS REPORT

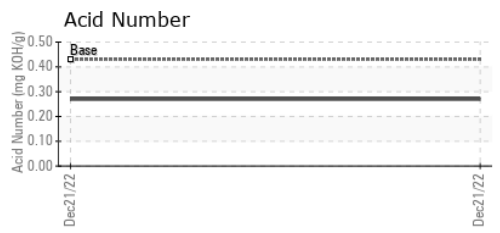
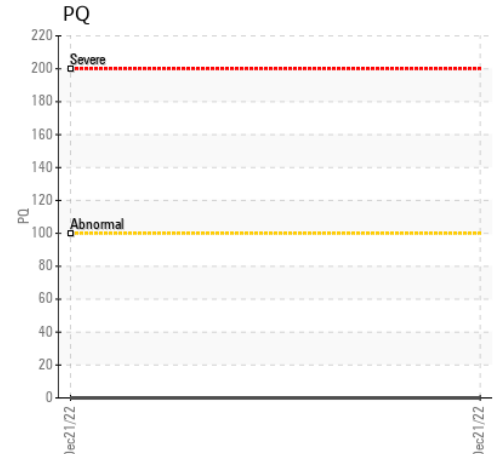
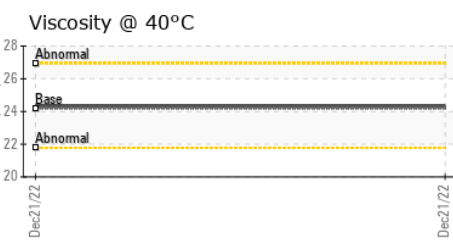
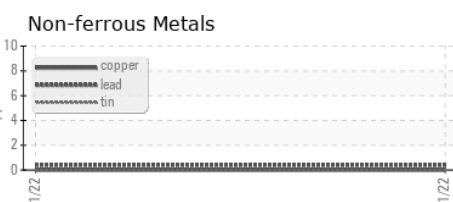
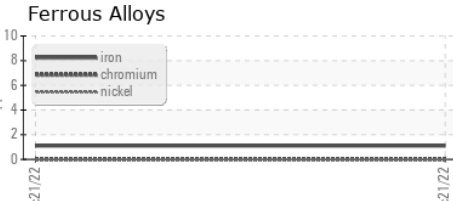


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	VLITE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	24.2	24.3	---
Visc @ 100°C	cSt	ASTM D7279(m)	4.97	5.1	---
Viscosity Index (VI)	Scale	ASTM D2270*	134	143	---

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

## GRAPHS



ISO 17025:2017 Accredited Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0759277 **Received** : 13 Mar 2023  
**Lab Number** : 02544602 **Diagnosed** : 17 Mar 2023  
**Unique Number** : 5541607 **Diagnostician** : Kevin Marson  
**Test Package** : AVI 3 ( Additional Tests: PQ )

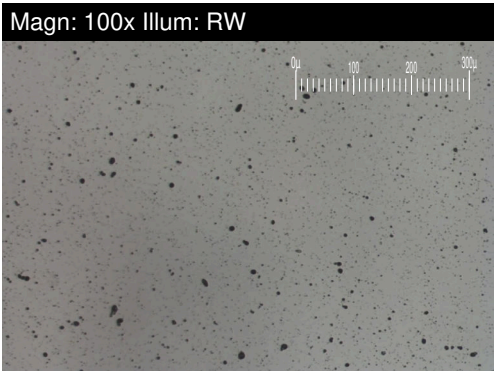
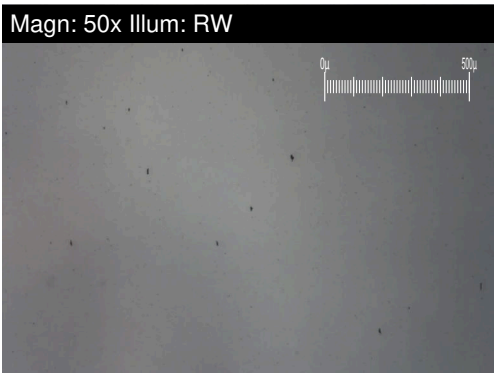
To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

**WASAYA AIRWAYS L.P.**  
 201 KELNER PLACE  
 THUNDER BAY, ON  
 CA P7E 6V3  
 Contact: Leila Richardson  
 lrichardson@wasaya.com  
 T: (807)626-8374  
 F: (807)577-0200



# FERROGRAPHY REPORT

Area  
**(C-FWAU)**  
 Machine Id  
**[C-FWAU] BEEHCRAFT 1900D GG-PS0001**  
 Component  
**Left Jet Turbine**  
 Fluid  
**BP TURBO OIL 2380 (14 LTR)**

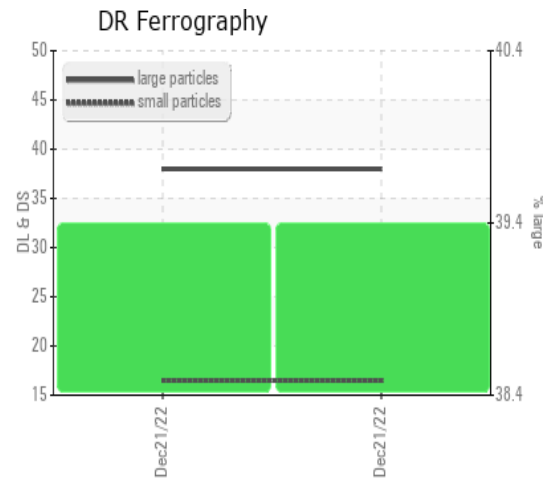


DR-FERROGRAPHY		method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		<b>38.0</b>	---	---
Small Particles		DR-Ferr*		<b>16.5</b>	---	---
Total Particles		DR-Ferr*	>---	<b>54.5</b>	---	---
Large Particles Percentage	%	DR-Ferr*		<b>39.4</b>	---	---
Severity Index		DR-Ferr*		<b>817</b>	---	---

FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		<b>1</b>		
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		<b>1</b>		
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*				
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*				
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*				
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*				
Nonferrous Other	Scale 0-10	ASTM D7684*				
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Lubricant Degradation	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*		<b>1</b>		
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		<b>2</b>		

## WEAR

All component wear rates are normal. The direct-reading & analytical ferrographic results are normal indicating no abnormal wear in the system.



*This page left intentionally blank*