



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**[C-FXGQ] S76C+ C-FXGQ**  
 Component  
**Gearbox**  
 Fluid  
**TURBINE 2380 (--- LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.  
 NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.

### Contaminants

The water content is negligible. 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>WC0872229</b>	---	---
Sample Date	Client Info	<b>23 Oct 2023</b>	---	---
TSN	Client Info	<b>3655</b>	---	---
TSO	Client Info	<b>0</b>	---	---
Oil Age	Client Info	<b>98</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185(m) >30	<b>0</b>	---	---
Chromium ppm	ASTM D5185(m) >4	<b>0</b>	---	---
Nickel ppm	ASTM D5185(m) >5	<b>0</b>	---	---
Titanium ppm	ASTM D5185(m)	<b>0</b>	---	---
Silver ppm	ASTM D5185(m) >5	<b>&lt;1</b>	---	---
Aluminum ppm	ASTM D5185(m) >8	<b>0</b>	---	---
Lead ppm	ASTM D5185(m) >10	<b>0</b>	---	---
Copper ppm	ASTM D5185(m) >8	<b>&lt;1</b>	---	---
Tin ppm	ASTM D5185(m) >4	<b>0</b>	---	---
Antimony ppm	ASTM D5185(m) >5	<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)	<b>&lt;1</b>	---	---
Barium ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Molybdenum ppm	ASTM D5185(m)	<b>0</b>	---	---
Manganese ppm	ASTM D5185(m)	<b>0</b>	---	---
Magnesium ppm	ASTM D5185(m)	<b>0</b>	---	---
Calcium ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Phosphorus ppm	ASTM D5185(m)	<b>2692</b>	---	---
Zinc ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Sulfur ppm	ASTM D5185(m)	<b>6</b>	---	---
Lithium ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

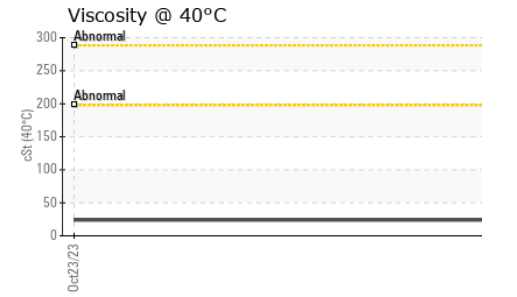
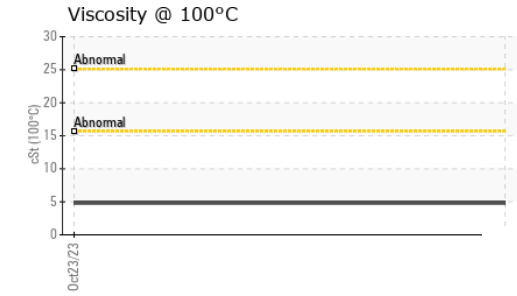
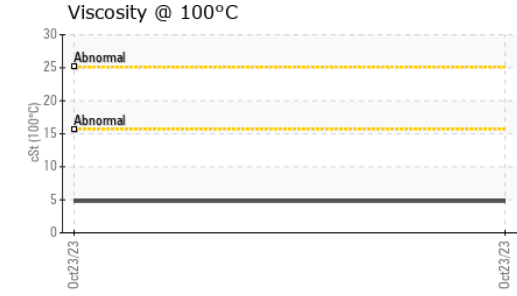
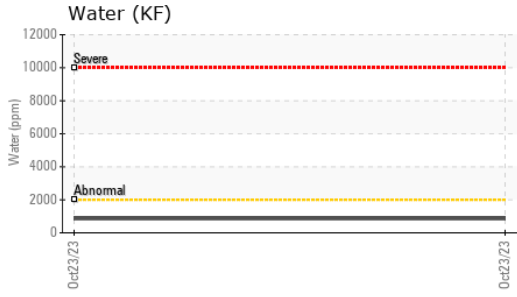
method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185(m) >10	<b>0</b>	---	---
Sodium ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Potassium ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Water %	ASTM D6304* >0.2	<b>0.085</b>	---	---
ppm Water	ASTM D6304* >2000	<b>859.1</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D974*	<b>0.60</b>	---	---

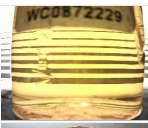



# OIL ANALYSIS REPORT

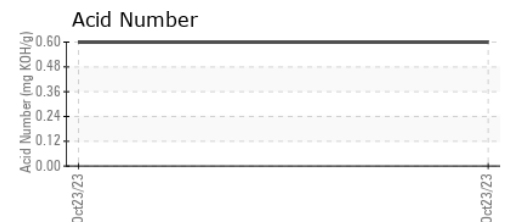
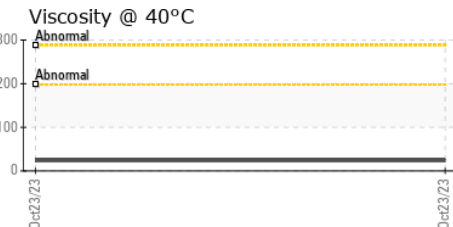
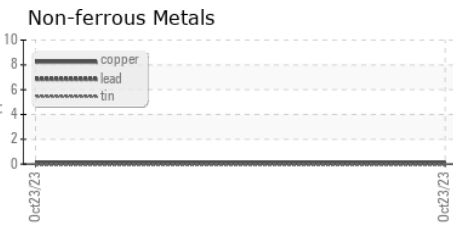
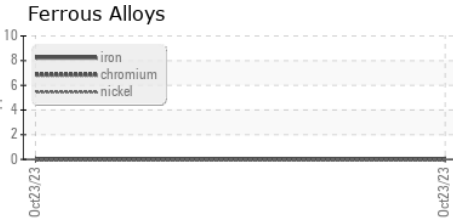


VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---
Free Water	scalar	Visual*		<b>NEG</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	<b>23.9</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	<b>4.8</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	<b>123</b>	---	---

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

## GRAPHS



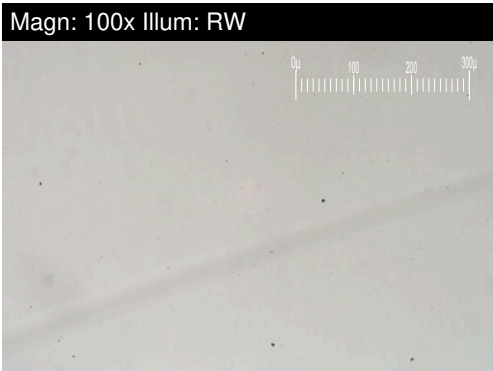
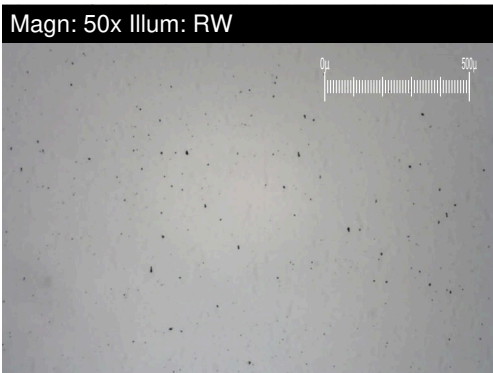
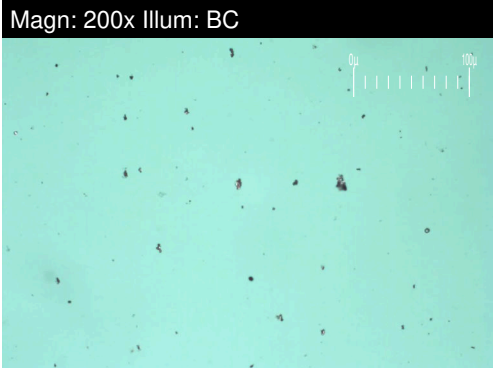
**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0872229 **Received** : 26 Oct 2023  
**Lab Number** : **02592051** **Diagnosed** : 01 Nov 2023  
**Unique Number** : 5669130 **Diagnostician** : Kevin Marson  
**Test Package** : AVI 3

**Coy Wolf Aviation Ltd.**  
 13691 McLaughlin Road North  
 Caledon, ON  
 CA L7C 3L7  
 Contact: Paul Carney  
 paul@coywolfaviation.com  
 T:  
 F:

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.

# FERROGRAPHY REPORT

Machine Id  
**[C-FXGQ] S76C+ C-FXGQ**  
 Component  
**Gearbox**  
 Fluid  
**TURBINE 2380 (--- LTR)**

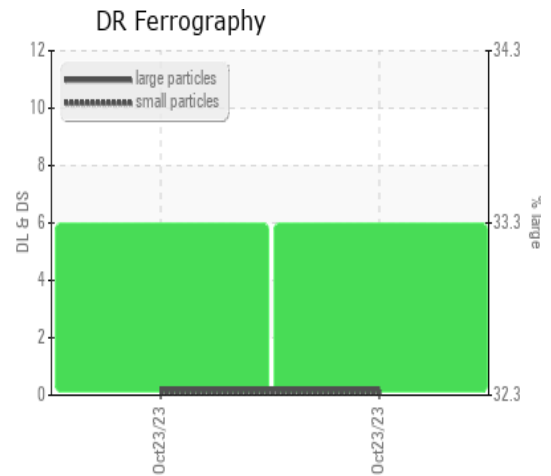


DR-FERROGRAPHY		method	limit/base	current	history1	history2
Large Particles		DR-Ferr*		<b>0.2</b>	---	---
Small Particles		DR-Ferr*		<b>0.1</b>	---	---
Total Particles		DR-Ferr*	>---	<b>0.3</b>	---	---
Large Particles Percentage	%	DR-Ferr*		<b>33.3</b>	---	---
Severity Index		DR-Ferr*		<b>0</b>	---	---

FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		<b>2</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>1</b>		

### WEAR

All component wear rates are normal. The ferrography results are normal indicating no abnormal wear in the system.



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