



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINANTS	NORMAL
OIL CONDITION	NORMAL

Area  
**(C-GSNF)**  
Machine Id  
**BEECHCRAFT PCE-RC0011**  
Component  
**Right Jet Turbine**  
Fluid  
**EASTMAN TURBO OIL 2380 (10 LTR)**

**RECOMMENDATION**

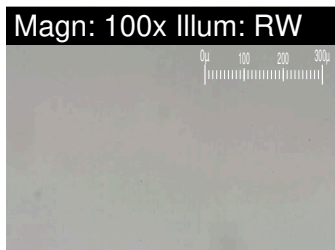
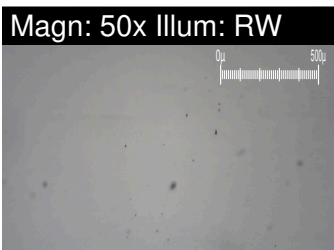
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0910026</b>	WC0886033	WC0875119
Sample Date		Client Info		<b>06 Mar 2024</b>	15 Jan 2024	28 Nov 2023
TSN	hrs	Client Info		<b>5702</b>	5492	5307
TSO	hrs	Client Info		<b>2200</b>	1990	1806
Oil Age	hrs	Client Info		<b>689</b>	479	295
Filter Age	hrs	Client Info		<b>638</b>	428	244
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

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

Iron	ppm	ASTM D5185(m)	>8	<b>0</b>	0	0
Chromium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	0
Lead	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Tin	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Large Particles		DR-Ferr*		<b>2.4</b>	2.7	2.2
Small Particles		DR-Ferr*		<b>2.1</b>	2.7	1.8
Total Particles		DR-Ferr*	>---	<b>4.5</b>	5.4	4
Large Particles Percentage	%	DR-Ferr*		<b>6.7</b>	0	10
Severity Index		DR-Ferr*		<b>1</b>	0	1
Ferrous Rubbing	Scale 0-10	ASTM D7684*		<b>1</b>	1	1
Ferrous Sliding	Scale 0-10	ASTM D7684*				
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		<b>1</b>		1
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*				



## CONTAMINANTS

The water content is negligible. There is no indication of any contamination in the oil.

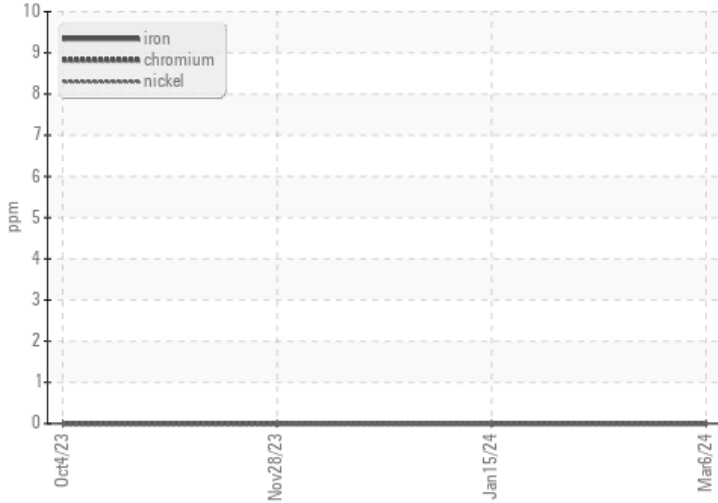
Silicon	ppm	ASTM D5185(m)	>8	<b>3</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Water	%	ASTM D6304*	>0.1	<b>0.015</b>	0.018	0.038
ppm Water	ppm	ASTM D6304*	>1000	<b>150</b>	186	387
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*			1	1
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		1	1	1

## OIL CONDITION

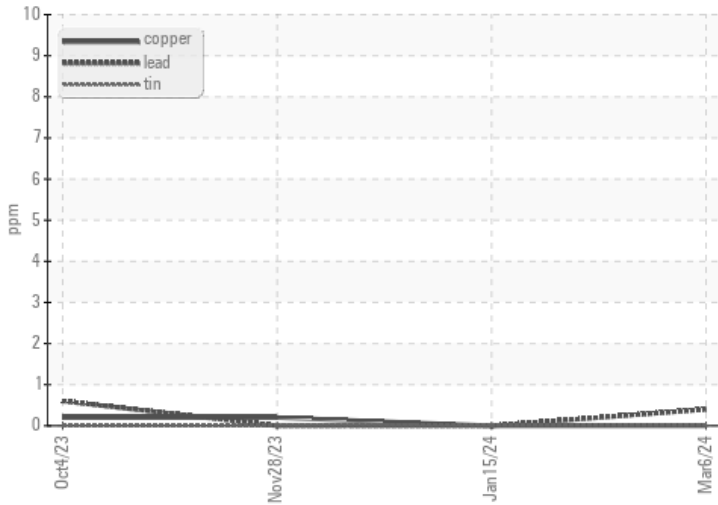
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Boron	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Calcium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185(m)	2500	<b>2709</b>	2666	2698
Zinc	ppm	ASTM D5185(m)	0	<b>1</b>	2	2
Sulfur	ppm	ASTM D5185(m)	0	<b>0</b>	0	6
Acid Number (AN)	mg KOH/g	ASTM D974*	0.43	<b>0.31</b>	0.30	0.33
Visc @ 40°C	cSt	ASTM D7279(m)	24.2	<b>24.1</b>	23.4	23.9
Visc @ 100°C	cSt	ASTM D7279(m)	4.97	<b>5.0</b>	4.9	4.9
Viscosity Index (VI)	Scale	ASTM D2270*	134	<b>137</b>	137	131
Lubricant Degradation	Scale 0-10	ASTM D7684*				

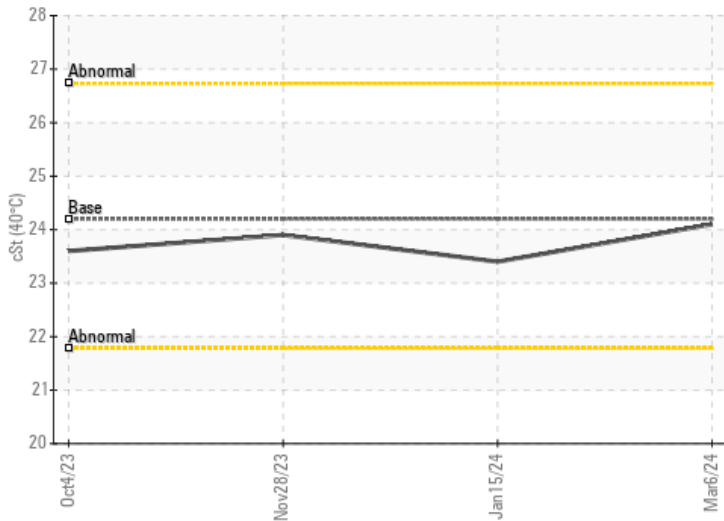
### Ferrous Alloys



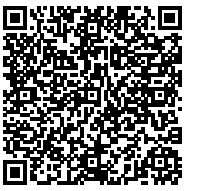
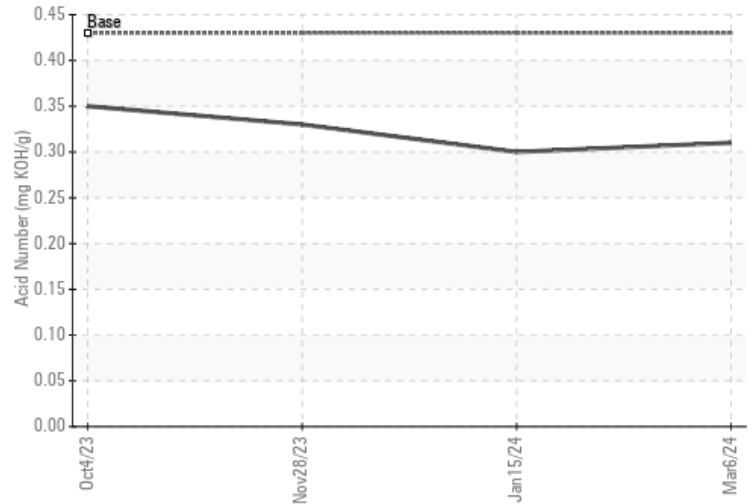
### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0910026  
**Lab Number** : 02620536  
**Unique Number** : 5737646  
**Test Package** : AVI 3  
**Received** : 07 Mar 2024  
**Tested** : 08 Mar 2024  
**Diagnosed** : 08 Mar 2024 - Kevin Marson

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.

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