



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINANTS	NORMAL
OIL CONDITION	NORMAL

Area  
**(C-GSNF)**  
Machine Id  
**BEEHCRAFT PCE-81607**  
Component  
**Left Jet Turbine**  
Fluid  
**EASTMAN TURBO OIL 2380 (--- GAL)**

**RECOMMENDATION**

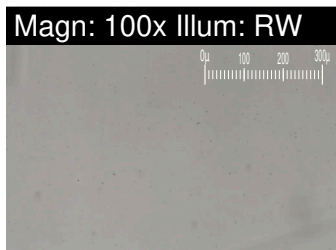
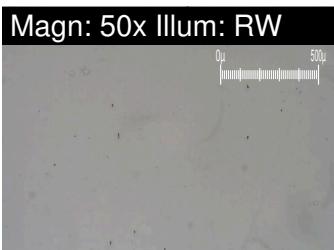
Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0944747</b>	WC0910024	WC0910025
Sample Date		Client Info		<b>19 Jun 2024</b>	23 Apr 2024	06 Mar 2024
TSN	hrs	Client Info		<b>17924</b>	17729	17546
TSO	hrs	Client Info		<b>4307</b>	4112	3929
Oil Age	hrs	Client Info		<b>3910</b>	3714	3532
Filter Age	hrs	Client Info		<b>377</b>	182	992
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changed	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>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	0	0
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>1.6</b>	4.3	1.4
Small Particles		DR-Ferr*		<b>1.7</b>	4.2	1.2
Total Particles		DR-Ferr*	>---	<b>3.3</b>	8.5	2.6
Large Particles Percentage	%	DR-Ferr*		<b>0</b>	1.2	7.7
Severity Index		DR-Ferr*		<b>0</b>	0	0
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	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.

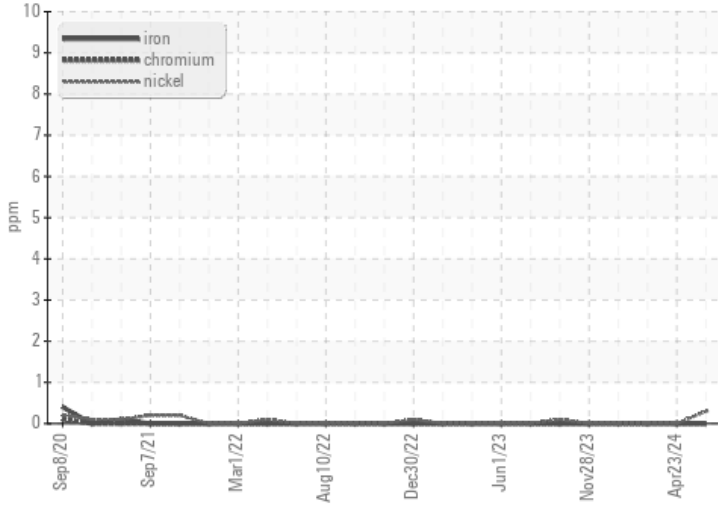
Silicon	ppm	ASTM D5185(m)	>8	<b>4</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Water	%	ASTM D6304*	>0.1	<b>0.054</b>	0.021	0.012
ppm Water	ppm	ASTM D6304*	>1000	<b>548</b>	215	126
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
Sand/Dirt	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*		<b>1</b>		
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		<b>1</b>	<b>1</b>	<b>1</b>

## OIL CONDITION

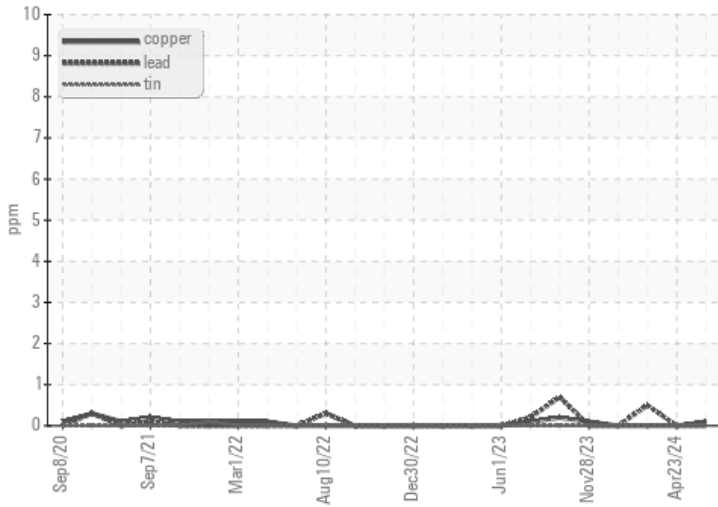
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Boron	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	0
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
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>&lt;1</b>	0	0
Calcium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185(m)	2500	<b>2642</b>	2667	2690
Zinc	ppm	ASTM D5185(m)	0	<b>2</b>	1	<1
Sulfur	ppm	ASTM D5185(m)	0	<b>8</b>	3	0
Acid Number (AN)	mg KOH/g	ASTM D974*	0.43	<b>0.27</b>	0.27	0.29
Visc @ 40°C	cSt	ASTM D7279(m)	24.2	<b>23.9</b>	24.4	24.1
Visc @ 100°C	cSt	ASTM D7279(m)	4.97	<b>5.0</b>	4.9	5.0
Viscosity Index (VI)	Scale	ASTM D2270*	134	<b>140</b>	126	137
Lubricant Degradation	Scale 0-10	ASTM D7684*				

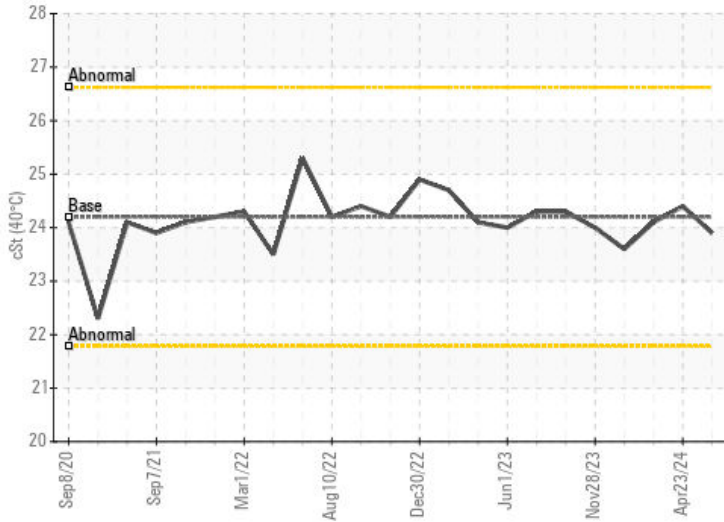
### Ferrous Alloys



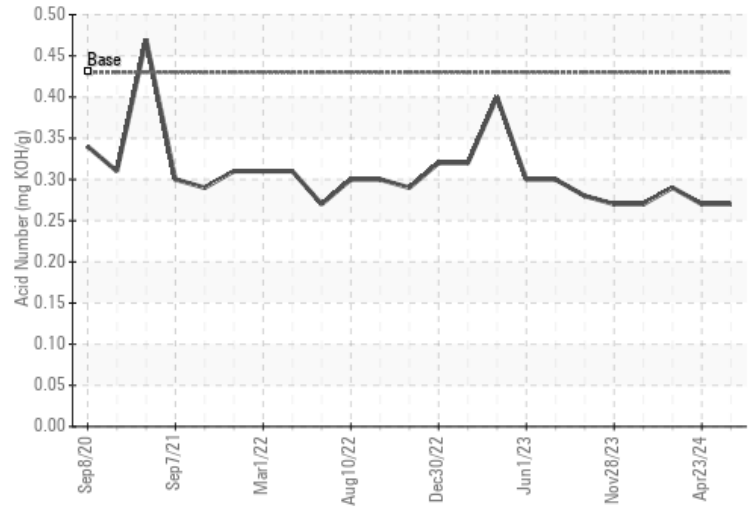
### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0944747  
**Lab Number** : 02643397  
**Unique Number** : 5800936  
**Test Package** : AVI 3  
**Received** : 21 Jun 2024  
**Tested** : 26 Jun 2024  
**Diagnosed** : 26 Jun 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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