



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINANTS	NORMAL
OIL CONDITION	NORMAL

Area
(C-GSNR)
Machine Id
BEECHCRAFT PCE-RX1382
Component
Right Jet Turbine
Fluid
EASTMAN TURBO OIL 2380 (10 LTR)

RECOMMENDATION

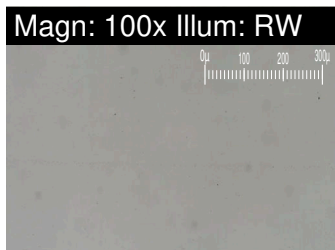
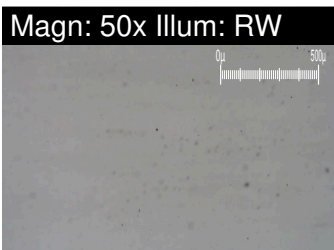
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0954832	WC0925734	---
Sample Date		Client Info		25 Jun 2024	23 May 2024	---
TSN	hrs	Client Info		194	85	---
TSO	hrs	Client Info		194	85	---
Oil Age	hrs	Client Info		194	85	---
Filter Age	hrs	Client Info		194	85	---
Oil Changed		Client Info		Not Changed	Not Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				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	0	0	---
Chromium	ppm	ASTM D5185(m)	>2	0	0	---
Nickel	ppm	ASTM D5185(m)	>2	<1	0	---
Titanium	ppm	ASTM D5185(m)	>2	0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>2	<1	0	---
Lead	ppm	ASTM D5185(m)	>3	0	0	---
Copper	ppm	ASTM D5185(m)	>3	<1	0	---
Tin	ppm	ASTM D5185(m)	>2	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Large Particles		DR-Ferr*		9.0	4.9	---
Small Particles		DR-Ferr*		8.6	4.2	---
Total Particles		DR-Ferr*	>---	17.6	9.1	---
Large Particles Percentage	%	DR-Ferr*		2.3	7.7	---
Severity Index		DR-Ferr*		4	3	---
Ferrous Rubbing	Scale 0-10	ASTM D7684*		1	1	---
Ferrous Sliding	Scale 0-10	ASTM D7684*				---
Ferrous Cutting	Scale 0-10	ASTM D7684*				---
Ferrous Rolling	Scale 0-10	ASTM D7684*		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.

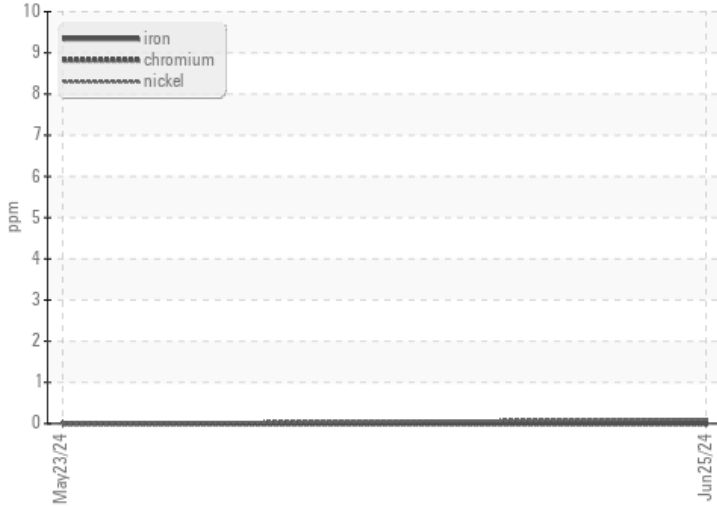
Silicon	ppm	ASTM D5185(m)	>8	3	1	---
Potassium	ppm	ASTM D5185(m)	>20	0	<1	---
Water	%	ASTM D6304*	>0.1	0.051	0.045	---
ppm Water	ppm	ASTM D6304*	>1000	515	457	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*			1	
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		1	1	

OIL CONDITION

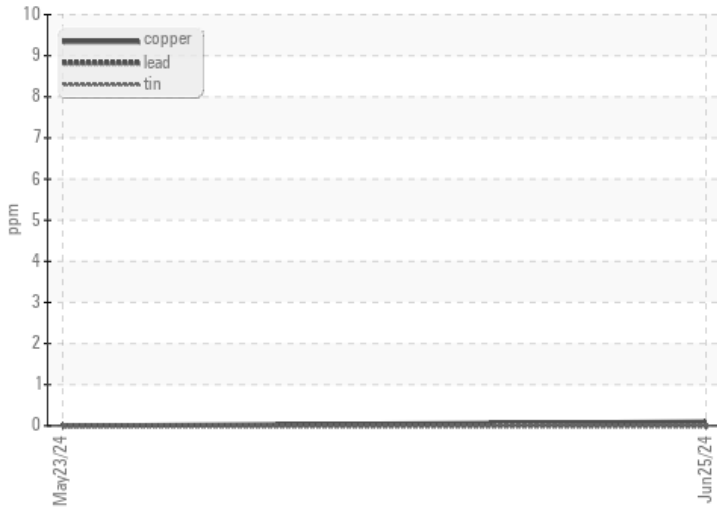
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		0	0	---
Boron	ppm	ASTM D5185(m)	0	2	2	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	0	0	---
Manganese	ppm	ASTM D5185(m)		0	0	---
Magnesium	ppm	ASTM D5185(m)	0	0	<1	---
Calcium	ppm	ASTM D5185(m)	0	<1	0	---
Phosphorus	ppm	ASTM D5185(m)	2500	2622	2668	---
Zinc	ppm	ASTM D5185(m)	0	2	2	---
Sulfur	ppm	ASTM D5185(m)	0	8	7	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.43	0.29	0.36	---
Visc @ 40°C	cSt	ASTM D7279(m)	24.2	24.3	23.7	---
Visc @ 100°C	cSt	ASTM D7279(m)	4.97	5.0	4.8	---
Viscosity Index (VI)	Scale	ASTM D2270*	134	135	125	---
Lubricant Degradation	Scale 0-10	ASTM D7684*				

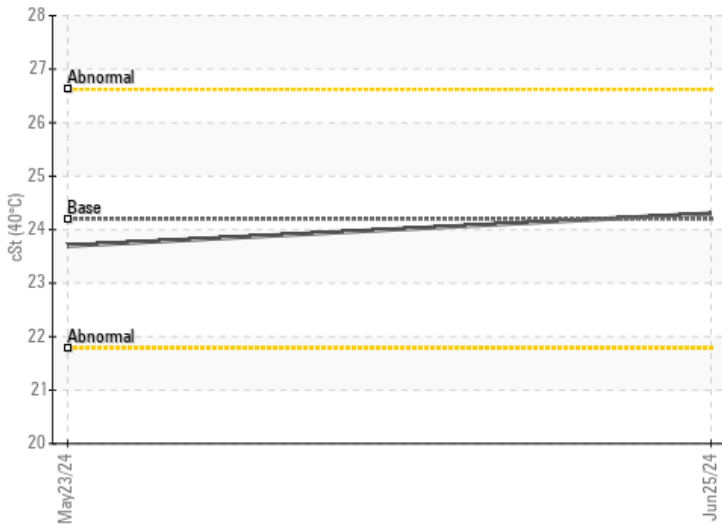
Ferrous Alloys



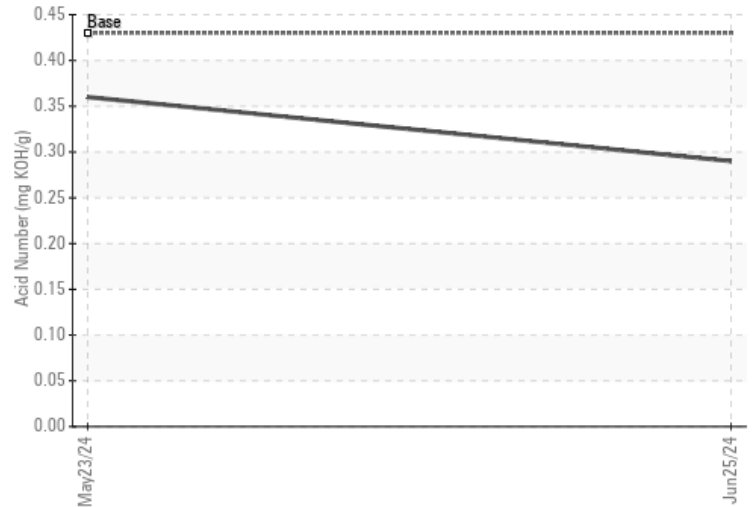
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0954832
Lab Number : 02644374
Unique Number : 5801913
Test Package : AVI 3
Received : 27 Jun 2024
Tested : 28 Jun 2024
Diagnosed : 28 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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