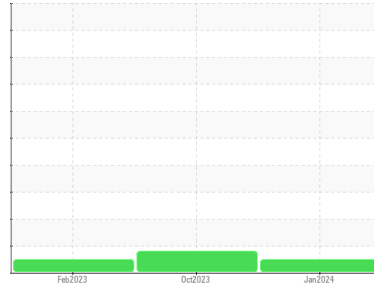




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
(C-GZEF)
 Machine Id
[C-GZEF] LONG E2E L-18633-15
 Component
Piston Aircraft Engine
 Fluid
SHELL AEROSHELL W 80 (6 QTS)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0844058	WC0844062	WC0721000
Sample Date	Client Info		18 Jan 2024	02 Oct 2023	08 Feb 2023
TSN	hrs	Client Info	2533	2516	2511
TSO	hrs	Client Info	105	0	83
Oil Age	hrs	Client Info	4	25	13
Oil Changed		Client Info	Changed	Changed	Changed
Sample Status			NORMAL	ABNORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>90	10	35	22
Chromium	ppm	ASTM D5185(m)	>20	3	10	8
Nickel	ppm	ASTM D5185(m)	>15	<1	2	1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	4	12	11
Lead	ppm	ASTM D5185(m)	>20000	553	1632	1361
Copper	ppm	ASTM D5185(m)	>25	3	14	10
Tin	ppm	ASTM D5185(m)	>30	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		<1	3	2

ADDITIVES

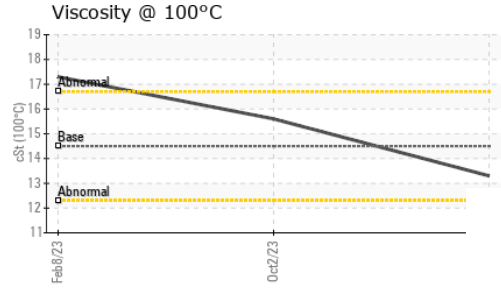
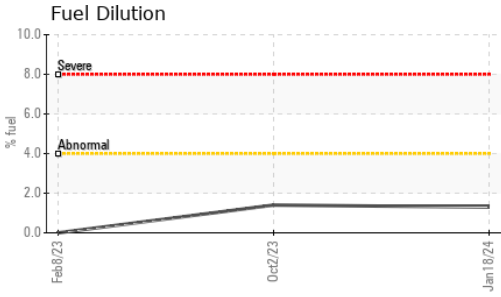
	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<1	<1	<1
Barium	ppm	ASTM D5185(m)		3	<1	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		<1	4	1
Calcium	ppm	ASTM D5185(m)		7	14	110
Phosphorus	ppm	ASTM D5185(m)		66	945	311
Zinc	ppm	ASTM D5185(m)		4	6	8
Sulfur	ppm	ASTM D5185(m)	3000	1980	1823	3299
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>15	6	8	10
Sodium	ppm	ASTM D5185(m)		<1	2	2
Potassium	ppm	ASTM D5185(m)	>20	1	0	<1
Fuel	%	ASTM D7593*	>4.0	1.3	1.4	<1.0



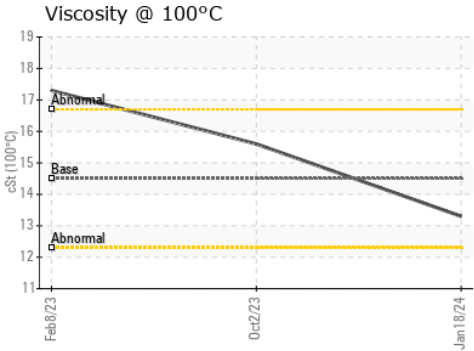
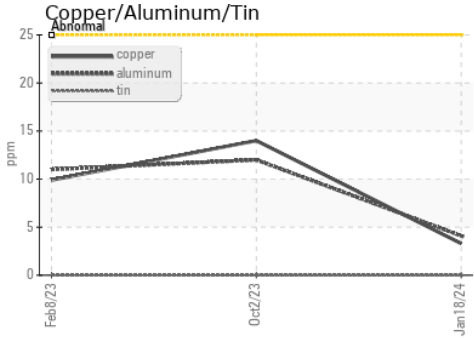
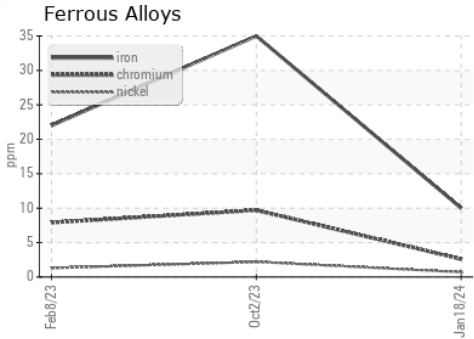
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	13.3	▲ 15.6	17.3

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0844058 **Received** : 23 Jan 2024
Lab Number : **02610556** **Diagnosed** : 24 Jan 2024
Unique Number : 5711642 **Diagnostician** : Kevin Marson
Test Package : AVI 1 (Additional Tests: FuelDilution, PercentFuel)

ITPS Canada
 2465 Aviation Lane., Unit 1
 London, ON
 CA N5V 3Z9
 Contact: Shannon Hickey
 shannon.hickey@itpscanada.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.