



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

(CGUEK)

Machine Id

[CGUEK] CESSNA P206D 550038

Component

Front Piston Aircraft Engine

Fluid

PHILLIPS 66 AVIATION X/C OIL SAE20W50 (12 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0953000	WC0713338	WC0598351
Sample Date		Client Info		10 Jun 2024	20 Jun 2022	12 Jul 2021
TSN	hrs	Client Info		0	0	0
TSO	hrs	Client Info		964	0	884
Oil Age	hrs	Client Info		34	14	17
Filter Age	hrs	Client Info		34	14	17
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184*		8	---	---
Iron	ppm	ASTM D5185(m)	>90	94	62	62
Chromium	ppm	ASTM D5185(m)	>20	5	4	4
Nickel	ppm	ASTM D5185(m)	>15	4	2	2
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	12	14	11
Lead	ppm	ASTM D5185(m)	>20000	4163	1992	2486
Copper	ppm	ASTM D5185(m)	>25	3	4	3
Tin	ppm	ASTM D5185(m)	>30	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

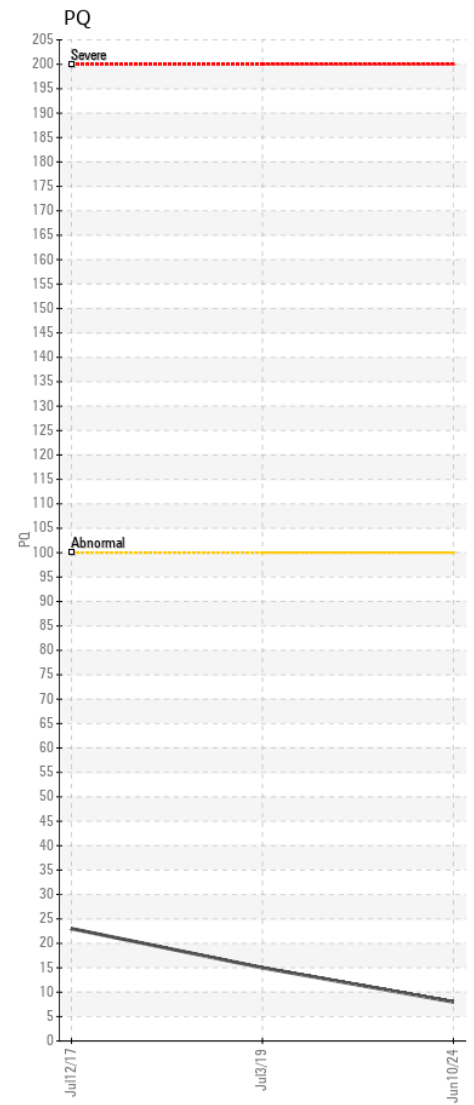
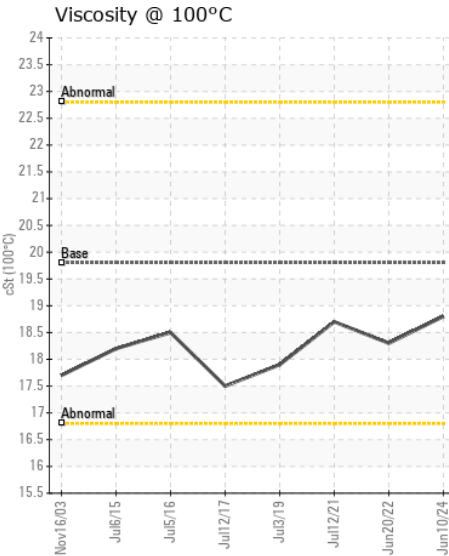
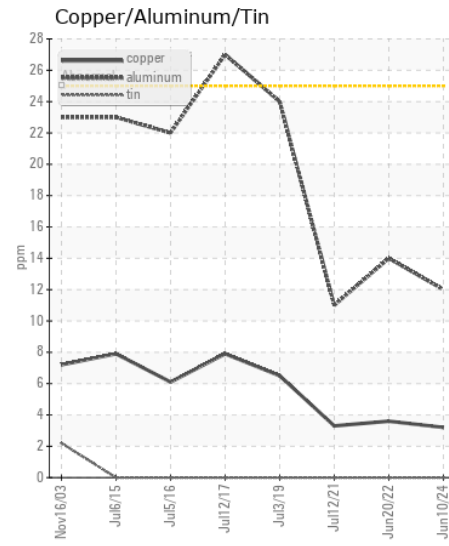
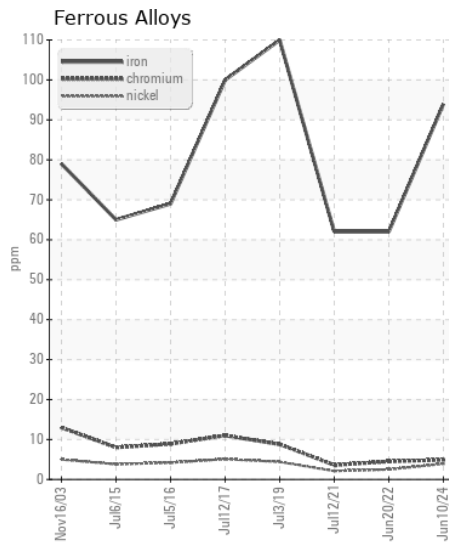
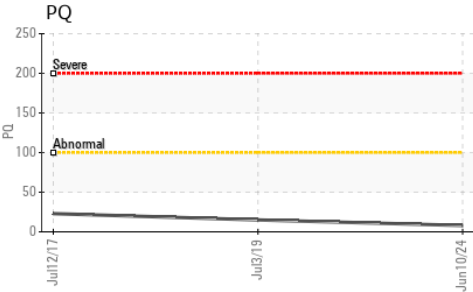
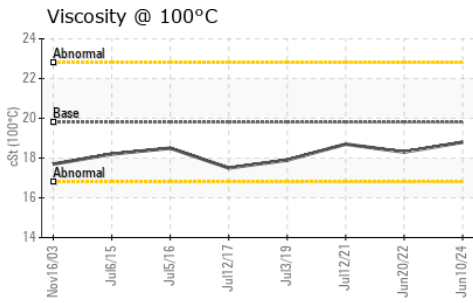
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	3	5	5
Potassium	ppm	ASTM D5185(m)	>20	0	0	<1
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	VLITE	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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Boron	ppm	ASTM D5185(m)		0	<1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		3	3	3
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		<1	1	1
Calcium	ppm	ASTM D5185(m)		60	83	84
Phosphorus	ppm	ASTM D5185(m)		50	92	76
Zinc	ppm	ASTM D5185(m)		7	7	8
Sulfur	ppm	ASTM D5185(m)		1271	1667	1648
Visc @ 100°C	cSt	ASTM D7279(m)	19.8	18.8	18.3	18.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0953000
Lab Number : 02641390
Unique Number : 5798929
Test Package : AVI 1 (Additional Tests: FT-IR, PQ)
Received : 12 Jun 2024
Tested : 12 Jun 2024
Diagnosed : 12 Jun 2024 - Kevin Marson

CORPORATE AIRCRAFT RESTORATIONS
 481 AVIATOR LANE
 OSHAWA, ON
 CA L1J 0B8
 Contact: Maurice Nesbitt
 hangar@bellnet.ca
 T: (905)434-5173
 F: (905)983-9599

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.