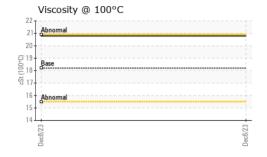
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

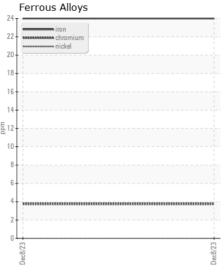
(C-GDVZ) [13112]

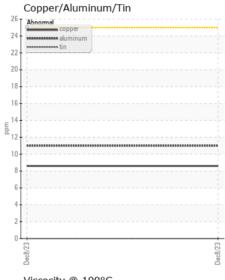
[C-GDVZ] PIPER PA-30 L-754-55A

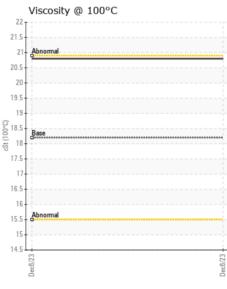
Right Piston Aircraft Engine

Sample Date Collect Info G807	SHELL AEROSHELL W 15W50 MGR (12 LT	R)						
Resample at the next service interval to monitor. Sample Date Client Info Sample Date Client Info Changed Changed Client Info Chan	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	Historv2
Sample Date Client Info 68 Dec 2023	Resample at the next service interval to monitor.							
TSO		•						
Oil Age hrs Client Info 50		TSN	hrs	Client Info		6507		
Filter Age		TSO	hrs	Client Info		2254		
Oil Changed Client Info Changed Changed Client Info Changed Change		Oil Age	hrs	Client Info		50		
Filter Changed Sample Status		Filter Age	hrs	Client Info		50		
Iron		Oil Changed		Client Info		Changed		
Iron		Filter Changed		Client Info		Changed		
All component wear rates are normal. Chromium ppm ASTM DS185m >20 4 Titanium ppm ASTM DS185m >5 0 Silver ppm ASTM DS185m >5 0 Silver ppm ASTM DS185m >5 0 Lead ppm ASTM DS185m >25 11 Lead ppm ASTM DS185m >25 11 Lead ppm ASTM DS185m >25 9 Tin ppm ASTM DS185m >0 0 Vanadium ppm ASTM DS185m >0 0 Valow Metal scalar Visual* NONE NONE There is no indication of any contamination in the oil. Fuel WC Method >0 1 NEG Fuel WC Method >0.1 NEG Glycol WC Method >0.1 NEG Silt scalar Visual* NONE NONE Debris scalar Visual* NONE NONE Samd/Dirt scalar Visual* NONE VLITE Appearance scalar Visual* NONE VILTE Appearance scalar Visual* NONE VLITE Codor scalar Visual* NONE VLITE Codor scalar Visual* NORML NORML The condition of the oil is acceptable for the time in service. Sodium ppm ASTM DS185m 0 Manganese ppm ASTM DS185m 0 Manganese ppm ASTM DS185m 0 Phosphorus ppm ASTM DS185m 10 1		Sample Status				NORMAL		
All component wear rates are normal. Chromium ppm ASTM DS185m >20 4 Titanium ppm ASTM DS185m >5 0 Silver ppm ASTM DS185m >5 0 Silver ppm ASTM DS185m >5 0 Lead ppm ASTM DS185m >25 11 Lead ppm ASTM DS185m >25 11 Lead ppm ASTM DS185m >25 9 Tin ppm ASTM DS185m >0 0 Vanadium ppm ASTM DS185m >0 0 Valow Metal scalar Visual* NONE NONE There is no indication of any contamination in the oil. Fuel WC Method >0 1 NEG Fuel WC Method >0.1 NEG Glycol WC Method >0.1 NEG Silt scalar Visual* NONE NONE Debris scalar Visual* NONE NONE Samd/Dirt scalar Visual* NONE VLITE Appearance scalar Visual* NONE VILTE Appearance scalar Visual* NONE VLITE Codor scalar Visual* NONE VLITE Codor scalar Visual* NORML NORML The condition of the oil is acceptable for the time in service. Sodium ppm ASTM DS185m 0 Manganese ppm ASTM DS185m 0 Manganese ppm ASTM DS185m 0 Phosphorus ppm ASTM DS185m 10 1	WEAR	Iron	ppm	ASTM D5185(m)	>90	24		
Nickel ppm ASTMD5185(m) >15 4 Titanium ppm ASTMD5185(m) >5 0 Siliver ppm ASTMD5185(m) >25 0 Aluminum ppm ASTMD5185(m) >25 11 Aluminum ppm ASTMD5185(m) >25 11 Aluminum ppm ASTMD5185(m) >25 11 Aluminum ppm ASTMD5185(m) >20 418 Copper ppm ASTMD5185(m) >20 9 Tin ppm ASTMD5185(m) >30 0 Vanadium ppm ASTMD5185(m) >30 0 Vanadium ppm ASTMD5185(m) >30 0 Vanadium ppm ASTMD5185(m) >0 Visual* NONE NONE Visual* NONE NONE Visual* NONE NONE Fuel WC Method >4.0 <1.0 Water WC Method >0.1 NEG Giycol WC Method Neg Silt scalar Visual* NONE Light Debris scalar Visual* NONE Light Sand/Dirt scalar Visual* NONE Light Odor scalar Visual* NONE Light Odor scalar Visual* NONE Light Office Solium ppm ASTMD5185(m) <1 FLUID CONDITION Solium ppm ASTMD5185(m) <1 Asthur ppm ASTMD5185(m) 0 Asthur ppm ASTMD5185(m) 10 1 Asthur ppm ASTMD5185(m) 10 1				` ,				
Titanium ppm ASTM D585im >5 0	All component wear rates are normal.			, ,				
Silver				` ,				
Aluminum ppm ASTM DSISSim >25 11		Silver		, ,	>5	0		
Lead		Aluminum		ASTM D5185(m)	>25	11		
Tin		Lead	ppm	ASTM D5185(m)	>20000	4418		
Vanadium ppm ASTM D5185(m) NONE NO		Copper	ppm	ASTM D5185(m)	>25	9		
White Metal Yellow Metal Scalar Visual* NONE NONE		Tin	ppm	ASTM D5185(m)	>30	0		
Yellow Metal Scalar Visual* NONE N		Vanadium	ppm	ASTM D5185(m)		0		
Silicon ppm ASTM D5185(m) >15 9		White Metal	scalar	Visual*	NONE	NONE		
Potassium ppm ASTM D5185(m) >20 <1 Fluil WC Method >4.0 <1.0 Water WC Method >0.1 NEG Glycol WC Method Visual* NONE LIGHT Sand/Dirt scalar Visual* NONE VIITE Appearance scalar Visual* NORML NORML NORML NORML NORML NORML Appearance scalar Visual* NORML		Yellow Metal	scalar	Visual*	NONE	NONE		
Potassium ppm ASTM D5185(m) >20 <1 Fluil WC Method >4.0 <1.0 Water WC Method >0.1 NEG Glycol WC Method Visual* NONE LIGHT Sand/Dirt scalar Visual* NONE VIITE Appearance scalar Visual* NORML NORML NORML NORML NORML NORML Appearance scalar Visual* NORML	CONTAMINATION	Silicon	nnm	ASTM D5185(m)	\15	α		
Fuel WC Method >4.0 <1.0 Water WC Method >0.1 NEG Glycol WC Method NEG Silt scalar Visual* NONE LIGHT Debris scalar Visual* NONE NONE NONE NONE NONE Sand/Dirt scalar Visual* NONE N	There is no indication of any contamination in the oil.							
Water			ррпп	\ /				
Glycol WC Method NEG Silt scalar Visual* NONE LIGHT Debris scalar Visual* NONE NONE NONE Sand/Dirt scalar Visual* NONE VLITE Appearance scalar Visual* NORML N								
Silt scalar Visual* NONE LIGHT Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NONE VUITE Appearance scalar Visual* NORML NOR					70.1			
Debris Scalar Visual* NONE NONE Sand/Dirt Scalar Visual* NONE VLITE NONE		·	scalar		NONE			
Sand/Dirt scalar Visual* NONE VLITE Appearance scalar Visual* NORML NORML NORML Odor scalar Visual* NORML NORML NORML Emulsified Water scalar Visual* NORML NORM								
Codor Scalar Visual* NORML NORML Emulsified Water Scalar Visual* Scalar Scalar Visual* Scalar Visual* Scalar Visual* Scalar Scalar Visual* Scalar Sca		Sand/Dirt		Visual*				
Emulsified Water scalar Visual* >0.1 NEG		Appearance	scalar	Visual*	NORML	NORML		
Sodium ppm ASTM D5185(m) <1 Barium ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 5 0 Magnesium ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 10 <1 Calcium ppm ASTM D5185(m) 10 1 Phosphorus ppm ASTM D5185(m) 1280 1121 Sulfur ppm ASTM D5185(m) 1800 2873		Odor	scalar	Visual*	NORML	NORML		
Boron ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 5 0 Manganese ppm ASTM D5185(m) 5 0 Manganese ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) 10 <1 Calcium ppm ASTM D5185(m) 10 1 Phosphorus ppm ASTM D5185(m) 1280 1121 Zinc ppm ASTM D5185(m) 10 4 Sulfur ppm ASTM D5185(m) 1800 2873		Emulsified Water	scalar	Visual*	>0.1	NEG		
Boron ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 5 0 Manganese ppm ASTM D5185(m) 5 0 Manganese ppm ASTM D5185(m) 0 Manganese ppm ASTM D5185(m) 10 <1 Calcium ppm ASTM D5185(m) 10 1 Phosphorus ppm ASTM D5185(m) 1280 1121 Zinc ppm ASTM D5185(m) 10 4 Sulfur ppm ASTM D5185(m) 1800 2873	FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		<1		
Barium ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 5 0 Manganese ppm ASTM D5185(m) 5 0 Magnesium ppm ASTM D5185(m) 10 <1 Calcium ppm ASTM D5185(m) 10 1 Phosphorus ppm ASTM D5185(m) 1280 1121 Zinc ppm ASTM D5185(m) 10 4 Sulfur ppm ASTM D5185(m) 1800 2873	The condition of the oil is acceptable for the time in service.							
Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 10 <1		Barium	ppm	ASTM D5185(m)		0		
Magnesium ppm ASTM D5185(m) 10 <1		Molybdenum		ASTM D5185(m)	5	0		
Calcium ppm ASTM D5185(m) 10 1 Phosphorus ppm ASTM D5185(m) 1280 1121 Zinc ppm ASTM D5185(m) 10 4 Sulfur ppm ASTM D5185(m) 1800 2873		Manganese	ppm	ASTM D5185(m)		0		
Phosphorus ppm ASTM D5185(m) 1280 1121 Zinc ppm ASTM D5185(m) 10 4 Sulfur ppm ASTM D5185(m) 1800 2873		Magnesium	ppm	ASTM D5185(m)	10	<1		
Zinc ppm ASTM D5185(m) 10 4 Sulfur ppm ASTM D5185(m) 1800 2873		Calcium	ppm	ASTM D5185(m)	10	1		
Sulfur ppm ASTM D5185(m) 1800 2873		Phosphorus	ppm	ASTM D5185(m)	1280	1121		
		Zinc	ppm	ASTM D5185(m)	10	4		
Visc @ 100°C cSt ASTM D7279(m) 18.2 20.8			ppm			2873		
		Visc @ 100°C	cSt	ASTM D7279(m)	18.2	20.8		











CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0834806

Lab Number : 02631608 Unique Number : 5772761 Test Package : AVI 1

Received : 26 Apr 2024 **Tested** : 26 Apr 2024 Diagnosed

: 26 Apr 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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