

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

[FSEF] FSEF

Piston Aircraft Engine Fluid SHELL AEROSHELL W 15W50 MGR (--- QTS)

DIAGNOSIS

A Recommendation

We advise that you check the engine tuning and timing. We advise that you check for excessive valve and valve guide clearance. We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample.

📥 Wear

Nickel ppm levels are abnormal. Exhaust valve wear is indicated.

Contamination

There is no indication of any contamination in the oil.

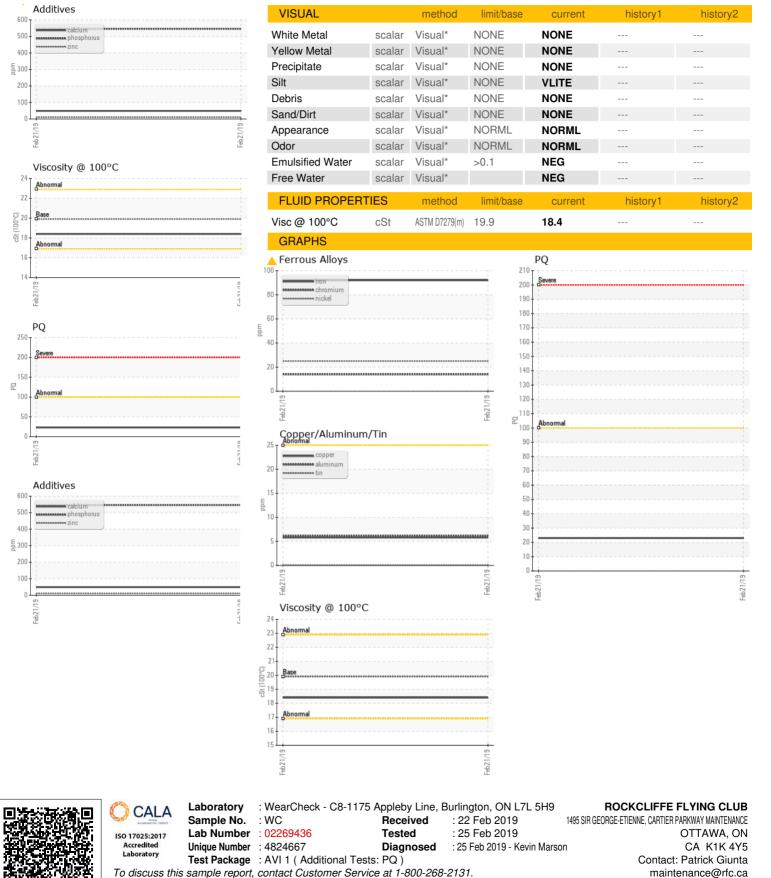
Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC		
Sample Date		Client Info		21 Feb 2019		
TSN	hrs	Client Info		0		
TSO	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0		
Water		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		23		
Iron	ppm	ASTM D5185(m)	>90	92		
Chromium	ppm	ASTM D5185(m)	>20	14		
Nickel	ppm	ASTM D5185(m)	>15	🔺 25		
Titanium	ppm	ASTM D5185(m)		<1		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>25	6		
Lead	ppm	ASTM D5185(m)	>20000	9129		
Copper	ppm	ASTM D5185(m)	>25	6		
Tin	ppm	ASTM D5185(m)	>30	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		<1		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		0		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)	5	4		
Manganese	ppm	ASTM D5185(m)		<1		
Magnesium	ppm	ASTM D5185(m)	10	<1		
Calcium	ppm	ASTM D5185(m)	10	49		
Phosphorus	ppm	ASTM D5185(m)	1280	546		
Zinc	ppm	ASTM D5185(m)	10	11		
Sulfur	ppm	ASTM D5185(m)	1800	4376		
Lithium	ppm	ASTM D5185(m)		0		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	6		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	<1		



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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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