

OIL ANALYSIS REPORT

Sample Rating Trend

Machine Id

CESSNA C-FCRY (S/N 15074106)

Front Piston Aircraft Engine

PHILLIPS 66 20W50 X/C (6 QTS)

DIAGNOSIS

A Recommendation

We advise that you check the engine magneto timing. We advise that you check for a possible toolean mixture, or an over-advanced ignition timing. We advise that you perform a compression test, and a borescope exam. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Provided compression test checks O.K., resample in 20 to 25 hours to monitor.

🔺 Wear

PQ levels are abnormal. Aluminum and iron ppm levels are abnormal. Cylinder wear is indicated. High Aluminum (AI) level indicates abnormal bearing wear. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

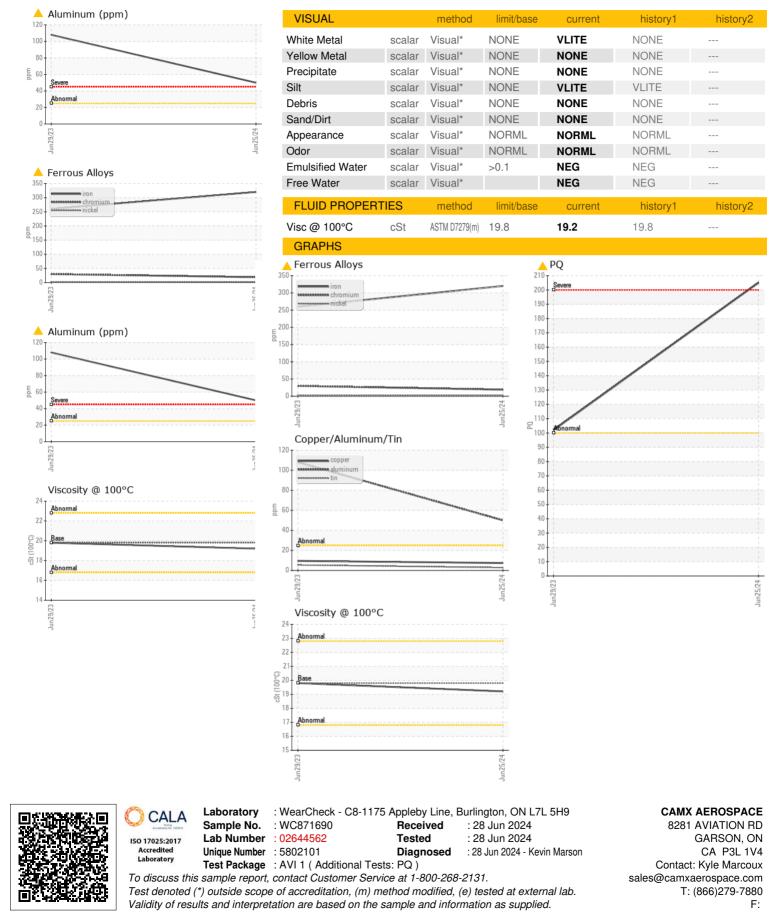
The oil is no longer serviceable as a result of the abnormal and/or severe wear.

| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|---------------|--------|---------------|------------|--------------|--------------|----------|
| Sample Number | | Client Info | | WC871690 | WC0809644 | |
| Sample Date | | Client Info | | 25 Jun 2024 | 29 Jun 2023 | |
| TSN | hrs | Client Info | | 6265 | 6228 | |
| TSO | hrs | Client Info | | 1457 | 0 | |
| Oil Age | hrs | Client Info | | 26 | 31 | |
| Oil Changed | | Client Info | | Changed | Changed | |
| Sample Status | | | | ABNORMAL | SEVERE | |
| CONTAMINATION | J | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >4.0 | <1.0 | <1.0 | |
| Water | | WC Method | >0.1 | NEG | NEG | |
| Glycol | | WC Method | | NEG | NEG | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| PQ | | ASTM D8184* | | A 205 | 102 | |
| Iron | ppm | ASTM D5185(m) | >90 | A 320 | A 260 | |
| Chromium | ppm | ASTM D5185(m) | >20 | 19 | 30 | |
| Nickel | ppm | ASTM D5185(m) | >15 | 2 | 2 | |
| Titanium | ppm | ASTM D5185(m) | | 0 | <1 | |
| Silver | ppm | ASTM D5185(m) | >5 | 0 | 0 | |
| Aluminum | ppm | ASTM D5185(m) | >25 | <u> </u> | 1 08 | |
| Lead | ppm | ASTM D5185(m) | >20000 | 3148 | 3081 | |
| Copper | ppm | ASTM D5185(m) | >25 | 7 | 10 | |
| Tin | ppm | ASTM D5185(m) | >30 | 3 | 5 | |
| Antimony | ppm | ASTM D5185(m) | | 0 | 0 | |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 | |
| Cadmium | ppm | ASTM D5185(m) | | 1 | 3 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185(m) | | <1 | <1 | |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | |
| Molybdenum | ppm | ASTM D5185(m) | | <1 | <1 | |
| Manganese | ppm | ASTM D5185(m) | | 3 | 2 | |
| Magnesium | ppm | ASTM D5185(m) | | 6 | 13 | |
| Calcium | ppm | ASTM D5185(m) | | 4 | 2 | |
| Phosphorus | ppm | ASTM D5185(m) | | 15 | 44 | |
| Zinc | ppm | ASTM D5185(m) | | 4 | 5 | |
| Sulfur | ppm | ASTM D5185(m) | | 928 | 962 | |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185(m) | >15 | 13 | 14 | |
| Sodium | ppm | ASTM D5185(m) | | <1 | <1 | |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 | |

WEAR



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