

## (C-GHRN) Machine Id [C-GHRN] CIRRUS SR222T 1046304 Component

## Front Piston Aircraft Engine

PHILLIPS 66 AVIATION TYPE M SAE 20W50 (8 LTR)

| RECOMMENDATION |
|----------------|
|----------------|

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.



All component wear rates are normal.

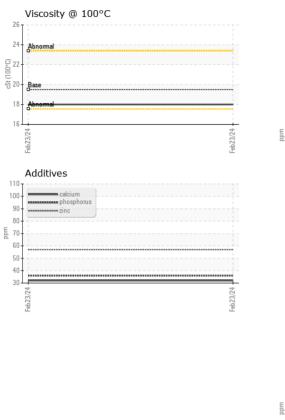
## CONTAMINATION

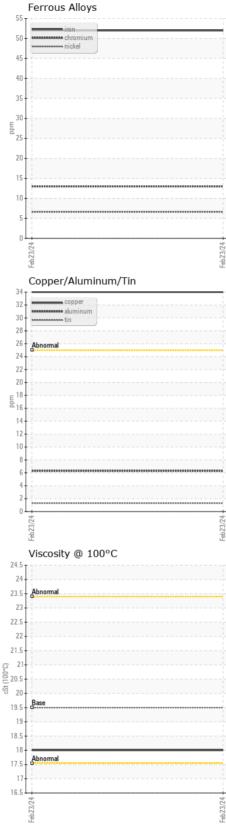
There is no indication of any contamination in the oil.

## FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

| Test             | UOM      | Method                         | Limit/Abn | Current     | History1 | History2 |
|------------------|----------|--------------------------------|-----------|-------------|----------|----------|
| Sample Number    |          | Client Info                    |           | WC0821900   |          |          |
| Sample Date      |          | Client Info                    |           | 23 Feb 2024 |          |          |
| TSN              | hrs      | Client Info                    |           | 28          |          |          |
| TSO              | hrs      | Client Info                    |           | 28          |          |          |
| Oil Age          | hrs      | Client Info                    |           | 28          |          |          |
| Filter Age       | hrs      | Client Info                    |           | 28          |          |          |
| Oil Changed      |          | Client Info                    |           | Changed     |          |          |
| Filter Changed   |          | Client Info                    |           | Changed     |          |          |
| Sample Status    |          |                                |           | NORMAL      |          |          |
|                  |          |                                |           |             |          |          |
| Iron             | ppm      | ASTM D5185(m)                  | >90       | 52          |          |          |
| Chromium         | ppm      | ASTM D5185(m)                  | >20       | 13          |          |          |
| Nickel           | ppm      | ASTM D5185(m)                  | >15       | 7           |          |          |
| Titanium         | ppm      | ASTM D5185(m)                  |           | 0           |          |          |
| Silver           | ppm      | ASTM D5185(m)                  | >5        | 0           |          |          |
| Aluminum         | ppm      | ASTM D5185(m)                  | >25       | 6           |          |          |
| Lead             | ppm      | ASTM D5185(m)                  | >20000    | 1913        |          |          |
| Copper           | ppm      | ASTM D5185(m)                  | >25       | 34          |          |          |
| Tin              | ppm      | ASTM D5185(m)                  | >30       | 1           |          |          |
| Vanadium         | ppm      | ASTM D5185(m)                  |           | 0           |          |          |
| White Metal      | scalar   | Visual*                        | NONE      | NONE        |          |          |
| Yellow Metal     | scalar   | Visual*                        | NONE      | NONE        |          |          |
|                  |          |                                |           | • ·         |          |          |
| Silicon          | ppm      | ASTM D5185(m)                  | >15       | 31          |          |          |
| Potassium        | ppm      | ASTM D5185(m)                  |           | <1          |          |          |
| Fuel             |          | WC Method                      | >4.0      | <1.0        |          |          |
| Water            |          | WC Method                      | >0.1      | NEG         |          |          |
| Glycol           |          | WC Method                      |           | NEG         |          |          |
| Soot %           | %        | ASTM D7844*                    |           | 0           |          |          |
| Nitration        | Abs/cm   | ASTM D7624*                    | >20       | 4.9         |          |          |
| Sulfation        | Abs/.1mm | ASTM D7415*                    | >30       | 14.2        |          |          |
| Silt             | scalar   | Visual*                        | NONE      | VLITE       |          |          |
| Debris           | scalar   | Visual*                        | NONE      | NONE        |          |          |
| Sand/Dirt        | scalar   | Visual*                        | NONE      | NONE        |          |          |
| Appearance       | scalar   | Visual*                        | NORML     | NORML       |          |          |
| Odor             | scalar   | Visual*                        | NORML     | NORML       |          |          |
| Emulsified Water | scalar   | Visual*                        | >0.1      | NEG         |          |          |
| Sodium           | ppm      | ASTM D5185(m)                  |           | <1          |          |          |
| Boron            | ppm      | ASTM D5185(m)                  |           | <1          |          |          |
| Barium           | ppm      | ASTM D5185(m)                  |           | 0           |          |          |
| Molybdenum       | ppm      | ASTM D5185(m)                  |           | 4           |          |          |
| Manganese        | ppm      | ASTM D5185(m)                  |           | <1          |          |          |
| Magnesium        | ppm      | ASTM D5185(m)                  |           | 3           |          |          |
| Calcium          | ppm      | ASTM D5185(m)                  |           | 32          |          |          |
| Phosphorus       | ppm      | ASTM D5185(m)                  |           | 36          |          |          |
| Zinc             | ppm      | ASTM D5185(m)                  |           | 57          |          |          |
| Sulfur           | ppm      | ASTM D5185(m)                  |           | 1328        |          |          |
| Oxidation        | Abs/.1mm | ASTM D3103(III)<br>ASTM D7414* | >25       | 9.9         |          |          |
| Visc @ 100°C     | cSt      | ASTM D7279(m)                  | 19.5      | 18.0        |          |          |
|                  | 001      | 101101213(III)                 | 10.0      | 10.0        |          |          |





HANDFIELD AVIATION 4920 RTE DE L`AEROPORT ST-HUBERT, QC CA J3Y 8Y9 Contact: Pierre maintenance@handfieldaviation.com T: (450)462-8511 F:



 
 Accredited Laboratory
 Unique Number
 : 5735768
 Diagnosed
 : 29 Feb 2024 - Kevin Marson

 To discuss this sample report, contact Customer Service at 1-800-268-2131.
 To discuss this sample report, contact Customer Service at 1-800-268-2131.
 r

 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.
 r

: WC0821900

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

Received

Tested

: 28 Feb 2024

: 28 Feb 2024

CALA

Laboratory

Sample No.

Lab Number : 02618658