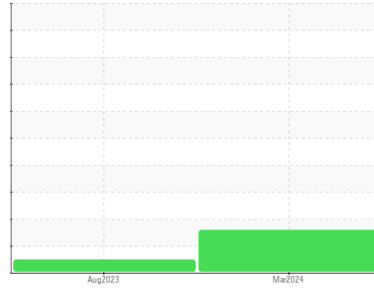




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
PIPER C-GKOK

Component
Piston Aircraft Engine

Fluid
SHELL AEROSHELL W 15W50 MGR (12 QTS)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate concentration of water present in the oil.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|----------|
| Sample Number | Client Info | | WC0852803 | WC0809641 | --- |
| Sample Date | Client Info | | 05 Mar 2024 | 15 Aug 2023 | --- |
| TSN | hrs | Client Info | 2572 | 0 | --- |
| TSO | hrs | Client Info | 0 | 0 | --- |
| Oil Age | hrs | Client Info | 25 | 50 | --- |
| Oil Changed | | Client Info | Not Changd | Not Changd | --- |
| Sample Status | | | ABNORMAL | NORMAL | --- |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|--------|-----------|------------|----------------|----------|----------|
| Fuel | WC Method | >4.0 | <1.0 | <1.0 | --- |
| Glycol | WC Method | | NEG | NEG | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|---------------|---------|--------------|----------|
| Iron | ppm | ASTM D5185(m) | >90 | 35 | 68 |
| Chromium | ppm | ASTM D5185(m) | >20 | 3 | 8 |
| Nickel | ppm | ASTM D5185(m) | >15 | 2 | 4 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >5 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >25 | 6 | 10 |
| Lead | ppm | ASTM D5185(m) | >20000 | 3313 | 4104 |
| Copper | ppm | ASTM D5185(m) | >25 | 12 | 23 |
| Tin | ppm | ASTM D5185(m) | >30 | 0 | <1 |
| 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 | 2 |

ADDITIVES

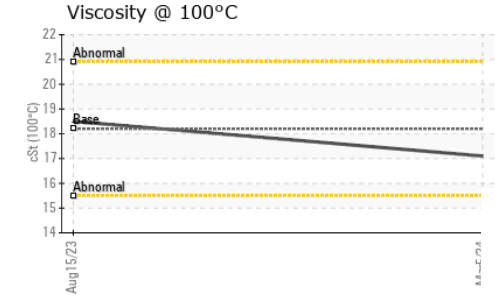
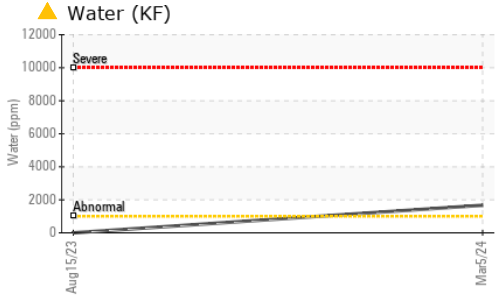
| | method | limit/base | current | history1 | history2 |
|------------|--------|---------------|---------|--------------|----------|
| Boron | ppm | ASTM D5185(m) | | <1 | <1 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 5 | 0 | <1 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 |
| Magnesium | ppm | ASTM D5185(m) | 10 | 6 | 11 |
| Calcium | ppm | ASTM D5185(m) | 10 | 2 | 2 |
| Phosphorus | ppm | ASTM D5185(m) | 1280 | 1123 | 1241 |
| Zinc | ppm | ASTM D5185(m) | 10 | 4 | 7 |
| Sulfur | ppm | ASTM D5185(m) | 1800 | 1238 | 1115 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|---------------|---------|----------------|----------|
| Silicon | ppm | ASTM D5185(m) | >15 | 2 | 5 |
| Sodium | ppm | ASTM D5185(m) | | <1 | <1 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 |
| Water | % | ASTM D6304* | >0.1 | ▲ 0.167 | --- |
| ppm Water | ppm | ASTM D6304* | >1000 | ▲ 1670 | --- |



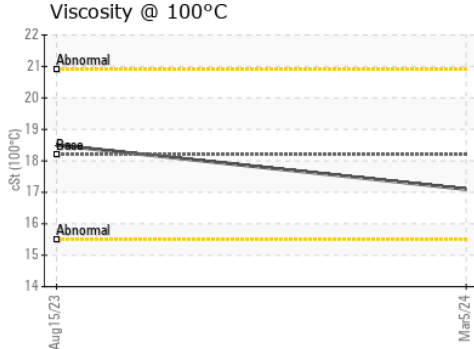
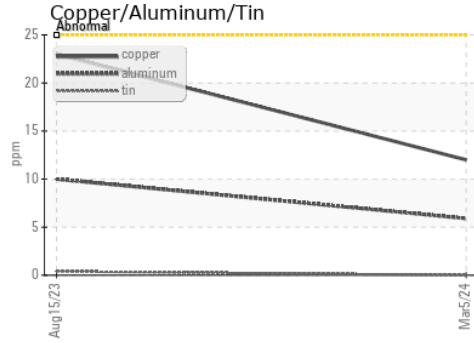
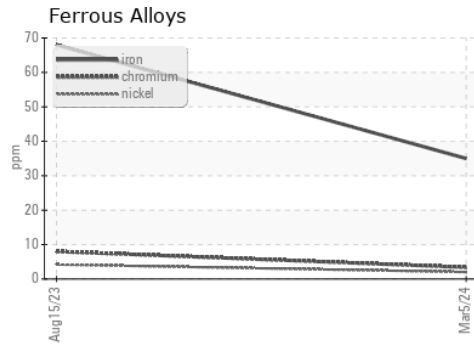
OIL ANALYSIS REPORT



| VISUAL | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|--------------|----------|-----|
| White Metal | scalar | Visual* | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | --- |
| Precipitate | scalar | Visual* | NONE | NONE | NONE | --- |
| Silt | scalar | Visual* | NONE | VLITE | NONE | --- |
| Debris | scalar | Visual* | NONE | VLITE | NONE | --- |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE | --- |
| Appearance | scalar | Visual* | NORML | NORML | NORML | --- |
| Odor | scalar | Visual* | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | Visual* | >0.1 | ▲.2% | NEG | --- |
| Free Water | scalar | Visual* | | NEG | NEG | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|---------------|---------|-------------|----------|-----|
| Visc @ 100°C | cSt | ASTM D7279(m) | 18.2 | 17.1 | 18.5 | --- |

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0852803 **Received** : 03 Apr 2024
Lab Number : **02626417** **Tested** : 04 Apr 2024
Unique Number : 5759549 **Diagnosed** : 04 Apr 2024 - Kevin Marson
Test Package : AVI 1 (Additional Tests: KF)

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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