



## OIL REPORT

LAB NUMBER: S272429

UNIT ID: N34602

REPORT DATE: 8/22/2025

CLIENT ID: 188578

CODE: 1/1,193

PAYMENT: CC: Visa

**UNIT**

MAKE/MODEL: Lycoming O-360-A1F6D

OIL TYPE &amp; GRADE: Phillips XC (A/C) 20W/50

FUEL TYPE: Gasoline (Leaded)

OIL USE INTERVAL: 83 Hours

ADDITIONAL INFO: 1973 Cessna C177B, S/N: L-17519-36A

**CLIENT**

PETER HOPKINS

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**COMMENTS**

PETER: This is another stellar report for N34602! Metals held steady or decreased slightly despite the longer interval, so it looks like internal parts were getting along really well. No contamination or filtration issues stand out, and the oil itself was in good shape. Great work.

| ELEMENTS IN PARTS PER MILLION | MI/HR on Oil      | 83       | UNIT /<br>LOCATION<br>AVERAGES | 60        | 52       | 10       | 23         | 21        | UNIVERSAL<br>AVERAGES |
|-------------------------------|-------------------|----------|--------------------------------|-----------|----------|----------|------------|-----------|-----------------------|
|                               | MI/HR on Unit     | 722      |                                | 639       | 579      | 527      |            |           |                       |
|                               | Sample Date       | 8/6/2025 |                                | 1/31/2025 | 6/5/2024 | 1/8/2024 | 11/29/2023 | 7/21/2023 |                       |
|                               | Make Up Oil Added |          |                                |           |          |          |            |           |                       |
|                               | ALUMINUM          | 3        | 4                              | 3         | 3        | 2        | 3          | 3         | 5                     |
|                               | CHROMIUM          | 1        | 1                              | 1         | 1        | 1        | 1          | 1         | 3                     |
|                               | IRON              | 8        | 13                             | 10        | 9        | 7        | 13         | 16        | 21                    |
|                               | COPPER            | 1        | 2                              | 1         | 1        | 1        | 2          | 1         | 5                     |
|                               | LEAD              | 1875     | 1604                           | 1548      | 1735     | 979      | 1785       | 1484      | 3479                  |
|                               | TIN               | 0        | 0                              | 1         | 0        | 0        | 1          | 0         | 1                     |
|                               | MOLYBDENUM        | 0        | 0                              | 0         | 0        | 0        | 0          | 0         | 0                     |
|                               | NICKEL            | 0        | 1                              | 0         | 1        | 0        | 1          | 1         | 1                     |
|                               | MANGANESE         | 0        | 0                              | 0         | 0        | 0        | 0          | 0         | 0                     |
|                               | SILVER            | 0        | 0                              | 0         | 0        | 0        | 0          | 0         | 0                     |
|                               | TITANIUM          | 0        | 0                              | 0         | 0        | 0        | 0          | 0         | 0                     |
|                               | POTASSIUM         | 0        | 0                              | 0         | 0        | 0        | 0          | 0         | 0                     |
|                               | BORON             | 2        | 1                              | 2         | 1        | 0        | 1          | 0         | 1                     |
|                               | SILICON           | 4        | 8                              | 7         | 9        | 12       | 24         | 11        | 5                     |
|                               | SODIUM            | 2        | 2                              | 4         | 2        | 1        | 2          | 2         | 1                     |
|                               | CALCIUM           | 87       | 76                             | 201       | 77       | 106      | 70         | 70        | 36                    |
|                               | MAGNESIUM         | 1        | 1                              | 2         | 1        | 1        | 1          | 1         | 1                     |
|                               | PHOSPHORUS        | 53       | 205                            | 210       | 48       | 151      | 47         | 88        | 547                   |
|                               | ZINC              | 2        | 2                              | 2         | 2        | 2        | 3          | 2         | 4                     |
|                               | BARIUM            | 0        | 0                              | 0         | 0        | 0        | 0          | 0         | 0                     |

Values  
Should Be\*

| PROPERTIES | SUS Viscosity @ 210°F | 93.9  | 86-105    | 89.6  | 92.2  | 85.8  | 84.4  | 89.8  |
|------------|-----------------------|-------|-----------|-------|-------|-------|-------|-------|
|            | cSt Viscosity @ 100°C | 18.91 | 17.0-21.8 | 17.88 | 18.51 | 16.97 | 16.61 | 17.94 |
|            | Flashpoint in °F      | 490   | >430      | 465   | 460   | 455   | 455   | 460   |
|            | Fuel %                | <0.5  | <1.0      | <0.5  | <0.5  | <0.5  | <0.5  | <0.5  |
|            | Antifreeze %          | -     |           | -     | -     | -     | -     | -     |
|            | Water %               | 0.0   | 0.0       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
|            | Insolubles %          | 0.3   | <0.6      | 0.2   | 0.4   | 0.3   | 0.3   | 0.2   |
|            | TBN                   |       |           |       |       |       |       |       |
|            | TAN                   |       |           |       |       |       |       |       |
|            | ISO Code              |       |           |       |       |       |       |       |

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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