# OIL REPORT

**LAB NUMBER:** N54056 **UNIT ID:** N307JS
**REPORT DATE:** 6/18/2021 **CLIENT ID:** 160214
**CODE:** 63/68 **PAYMENT:** CC: Visa

**UNIT**

MAKE/MODEL: Continental IO-550
FUEL TYPE: Gasoline (Leaded)
ADDITIONAL INFO: Beech A36
OIL TYPE & GRADE: Phillips XC (A/C) 20W/50
OIL USE INTERVAL: 1 Hours

**CLIENT**

SHELDON
HAWKINS JET CENTER
596 W RAMP ST
HAWKINS FIELD
JACKSON, MS 39209
PHONE: (601) 948-8778
FAX:
ALT PHONE:
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**COMMENTS**

SHELDON: You noted six months of inactivity on this oil run for N307JS, plus a new oil cooler, so we were expecting to see some excess wear metals from a combination of corrosion and wear-in. Then we noticed that this oil was only in use for 1.4 hours, so that explains why the readings are so low -- the metals just didn't have much time at all to accumulate. Universal averages show normal wear levels after ~35 hours of oil use, but we'll have to see how this engine's wear stacks up on a longer oil run to get a good comparison. For now, there are no obvious problems.

**ELEMENTS IN PARTS PER MILLION**

| | | UNIT / LOCATION AVERAGES | | | | | | UNIVERSAL AVERAGES |
|---|---|---|---|---|---|---|---|---|
| MI/HR on Oil | 1 | | | | | | | |
| MI/HR on Unit | 78 | | | | | | | |
| Sample Date | 6/1/2021 | | | | | | | |
| Make Up Oil Added | 1 qt | | | | | | | |
| | | | | | | | | |
| ALUMINUM | 7 | 7 | | | | | | 9 |
| CHROMIUM | 1 | 1 | | | | | | 7 |
| IRON | 9 | 9 | | | | | | 48 |
| COPPER | 1 | 1 | | | | | | 7 |
| LEAD | 687 | 687 | | | | | | 4825 |
| TIN | 0 | 0 | | | | | | 1 |
| MOLYBDENUM | 2 | 2 | | | | | | 4 |
| NICKEL | 4 | 4 | | | | | | 8 |
| MANGANESE | 0 | 0 | | | | | | 1 |
| SILVER | 0 | 0 | | | | | | 0 |
| TITANIUM | 0 | 0 | | | | | | 0 |
| POTASSIUM | 0 | 0 | | | | | | 1 |
| BORON | 2 | 2 | | | | | | 1 |
| SILICON | 6 | 6 | | | | | | 7 |
| SODIUM | 2 | 2 | | | | | | 1 |
| CALCIUM | 1 | 1 | | | | | | 24 |
| MAGNESIUM | 0 | 0 | | | | | | 1 |
| PHOSPHORUS | 1 | 1 | | | | | | 462 |
| ZINC | 1 | 1 | | | | | | 6 |
| BARIUM | 0 | 0 | | | | | | 0 |

**PROPERTIES**

| | | Values Should Be* | | | | | |
|---|---|---|---|---|---|---|---|
| SUS Viscosity @ 210°F | 87.3 | 86-105 | | | | | |
| cSt Viscosity @ 100°C | 17.33 | 17.0-21.8 | | | | | |
| Flashpoint in °F | 460 | >430 | | | | | |
| Fuel % | <0.5 | <1.0 | | | | | |
| Antifreeze % | - | | | | | | |
| Water % | 0.0 | 0.0 | | | | | |
| Insolubles % | 0.3 | <0.6 | | | | | |
| TBN | | | | | | | |
| TAN | | | | | | | |
| ISO Code | | | | | | | |

*** THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE**

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