



AOA

AVIATION OIL ANALYSIS

**YOUR AIRCRAFT.
OUR EXPERTISE.**

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| | | |
|--|---------------------------------|-------------------------------------|
| Customer Name: AIRCRAFT MECHANICAL SERVICES INC | Tail Number: N4230Z | Comp Serial No: RL-17221-27A |
| Address: 9540 W Airport Dr Visalia CA 93277 USA | Aircraft Make: Piper | Comp Name: Single Engine |
| Phone: 559 651 0190 | Aircraft Model: PA18 150 | Comp Make: Lycoming |
| Fax: 559 6512981 | Serial No: | Comp Model: O-320A2B |
| | UIN: 0393FAC | |

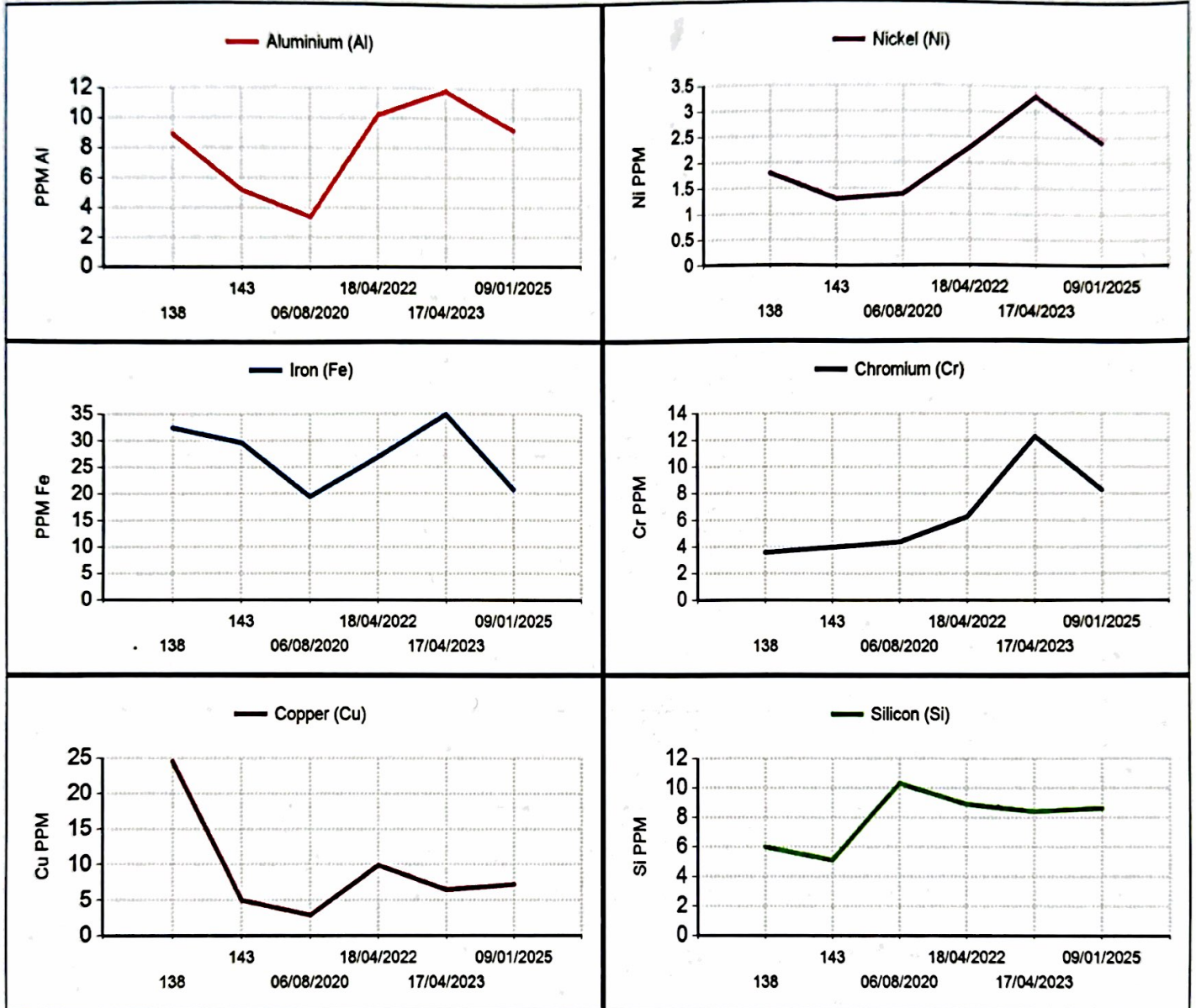
| Sample No. | 44150344487 | 44150303177 | 44150279053 | 44150238687 | 44150210511 | 44150159473 |
|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| SIF No. | 26408314 | 26408160 | 26416411 | 25377639 | 25364864 | 32271376 |
| Date Sampled | 09-Jan-25 | 17-Apr-23 | 18-Apr-22 | 06-Aug-20 | 20-Jun-19 | 11-May-17 |
| Date Tested | 09-Jan-25 | 21-Apr-23 | 26-Apr-22 | 20-Aug-20 | 02-Jul-19 | 19-May-17 |
| Oil Brand | Shell | Shell | Shell | Shell | Shell | Shell |
| Oil Type | Aeroshell W100+ | Aeroshell W100+ | Aeroshell W100+ | Aeroshell W100+ | Aeroshell W100+ | Aeroshell W100+ |
| Oil Grade | SAE 50 | SAE 50 | SAE 50 | SAE 50 | SAE 50 | SAE 50 |
| Oil Hrs | 2 | 5 | 2 | 2 | 3 | 3 |
| Oil Added | | | | | | |
| Hrs Since New | | | | | 143 | 138 |
| Rebuild Hrs | | | | | | |
| Metals (ppm) | | | | | | |
| Molybdenum (Mo) | 4 | | | | | |
| Aluminium (Al) | 9 | 12 | 10 | 3 | 5 | 9 |
| Iron (Fe) | 20.76 | 34.93 | 26.85 | 19.42 | 29.69 | 32.47 |
| Copper (Cu) | 7.23 | 6.50 | 9.91 | 2.93 | 5.01 | 24.54 |
| Nickel (Ni) | 2 | 3 | 2 | 1 | 1 | 2 |
| Chromium (Cr) | 8 | 12 | 6 | 4 | 4 | 4 |
| Tin (Sn) | <1 | | | | | |
| Lead (Pb) | 730.44 | | | | | |
| Silver (Ag) | <1 | <1 | <1 | <1 | <1 | <1 |
| Titanium (Ti) | <1 | | | | | |
| Contaminants (ppm) | | | | | | |
| Silicon (Si) | 9 | 8 | 9 | 10 | 5 | 6 |
| Additives (ppm) | | | | | | |
| Magnesium (Mg) | <1 | | | | | |

LEGEND



Sample No. Diagnosis/Recommendations

| | |
|-------------|--|
| 44150344487 | All values appear normal. |
| 44150303177 | All values appear normal. |
| 44150279053 | All values appear normal. |
| 44150238687 | All values appear normal. |
| 44150210511 | No abnormal wear detected for recent overhaul. Resample next oil change to check wear trend. |
| 44150159473 | No abnormal wear detected for recent overhaul. Resample next oil change to check wear trend. |



Since services are based on samples and information supplied by others, and since corrective actions, if any, are necessarily taken by others, these services are rendered without any warranty or liability of any kind beyond the actual amount paid to ALS Laboratory group for the services. Reported recommendations are based on interpretations of the generated test results and historical data. Certain test results appearing in this report may have been tested at other ALS laboratories within the Tribology divisional network.

Aircraft Mechanical Services Inc
 Attn: Melissa Silva
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 USA

TEST METHODS:
 Acid Number: ASTM D974/D664
 ICP: ASTM D5185
 Viscosity: ASTM D445 / D7279
 Water by Crackle: ASTM E203 Mod / In House