

| | | |
|---|---------------------------------|------------------------------------|
| Customer Name: MEL BARKER | Tail Number: N164SW | Comp Serial No: L-20740-36A |
| Address: 9500 Forest Dale Drive Oklahoma City OK 73151 USA | Aircraft Make: Piper | Comp Name: Single Engine |
| Phone: | Aircraft Model: PA28 181 | Comp Make: Lycoming |
| Fax: | Serial No: | Comp Model: O-360A4M |
| | UIN: 03777D2 | |

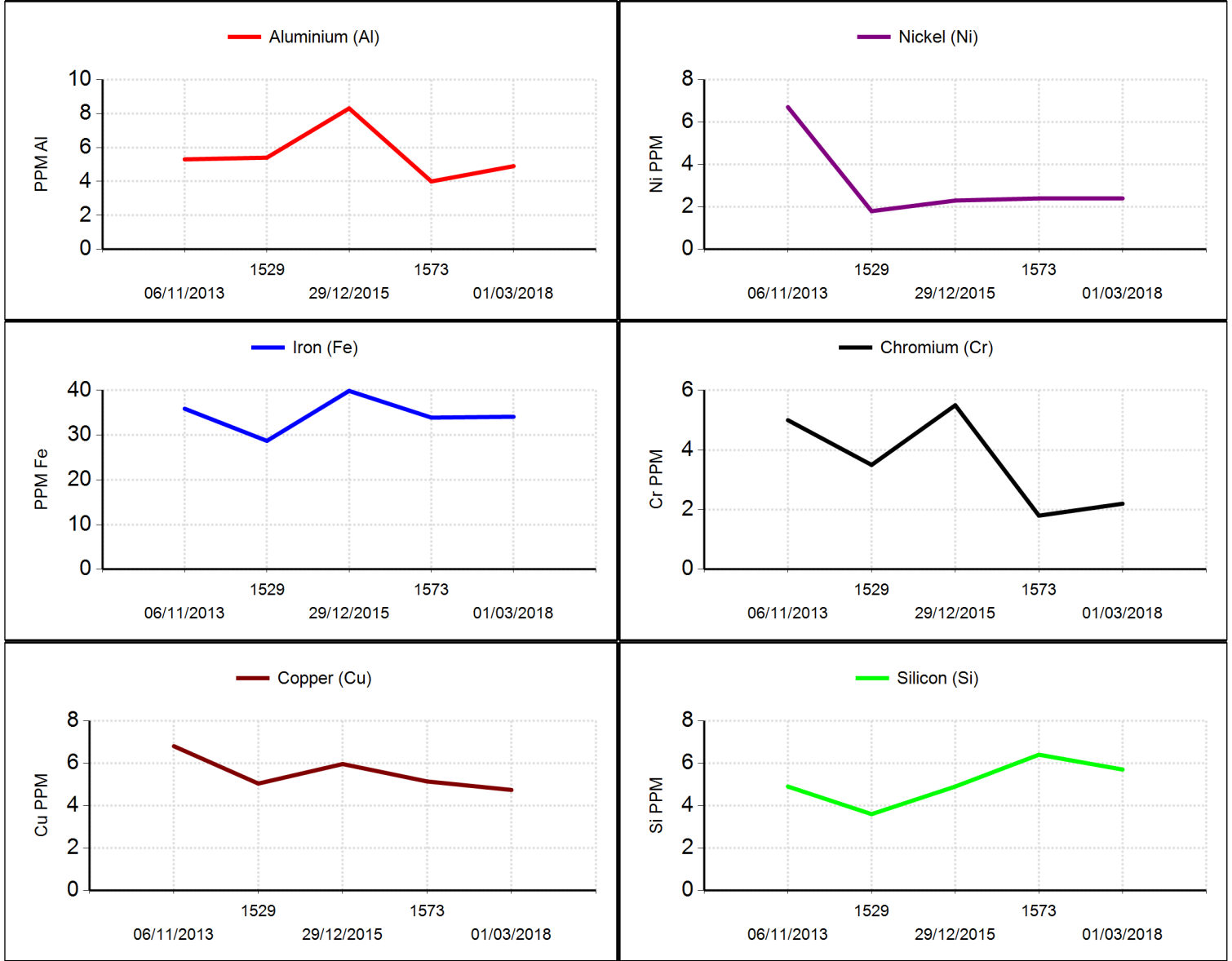
| Sample No. | 44150179249 | 44150153123 | 44150128311 | 44150104597 | 44150081218 |
|---------------------------|-------------|-------------|-------------|-------------|-------------|
| Date Sampled | 01-Mar-18 | 31-Jan-17 | 29-Dec-15 | 05-Dec-14 | 06-Nov-13 |
| Date Tested | 20-Mar-18 | 10-Feb-17 | 07-Jan-16 | 09-Dec-14 | 18-Nov-13 |
| Oil Brand | Shell | Shell | Shell | Shell | Shell |
| Oil Type | Aeroshell W | Aeroshell W | Aeroshell W | Aeroshell W | Aeroshell W |
| Oil Grade | SAE 15W50 | SAE 15W50 | SAE 15W50 | SAE 15W50 | SAE 15W50 |
| Oil Hrs | 17 | 26 | 20 | 17 | 42 |
| Oil Added | | | 1.0 | 7.0 | |
| Hrs Since New | 1591 | | 1549 | 1529 | 1514 |
| Rebuild Hrs | | 1573 | | 1529 | |
| Metals (ppm) | | | | | |
| Aluminium (Al) | 5 | 4 | 8 | 5 | 5 |
| Iron (Fe) | 34.10 | 33.91 | 39.88 | 28.71 | 35.90 |
| Copper (Cu) | 4.74 | 5.14 | 5.96 | 5.04 | 6.80 |
| Nickel (Ni) | 2 | 2 | 2 | 2 | 7 |
| Chromium (Cr) | 2 | 2 | 6 | 4 | 5 |
| Silver (Ag) | <1 | <1 | <1 | <1 | <1 |
| Contaminants (ppm) | | | | | |
| Silicon (Si) | 6 | 6 | 5 | 4 | 5 |

LEGEND



| Sample No. | Diagnosis/Recommendations |
|------------|---------------------------|
|------------|---------------------------|

| | |
|-------------|---|
| 44150179249 | All values appear normal. |
| 44150153123 | All values appear normal. |
| 44150128311 | All values appear normal. |
| 44150104597 | All values appear normal. |
| 44150081218 | All values appear normal. Resample next oil change to establish 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.

Mel Barker
 Attn: Mel Barker
 9500 Forest Dale Drive
 Oklahoma City OK 73151
 USA

TEST METHODS:

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