ALS Tribology

AOA AVIATION OIL ANALYSIS

YOUR AIRCRAFT. OUR EXPERTISE.

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Customer Name:	TIM FINO	**Tail Number:**	N47815	**Comp Serial No:**	1009404
Address:	34730 Oakland Farmington MI 48335 USA	**Aircraft Make:**	Piper	**Comp Name:**	Left Engine
		Aircraft Model:	PA34 200T	**Comp Make:**	Continental
Phone:	248 471 6500	**Serial No:**		**Comp Model:**	TSIO-360EB
Fax:	248 479 0383	**UIN:**	06984EF		

Sample No.	44150312224	44150304369	44150289384	44150282251	44150274474	44150267361
SIF No.	26426796	26433883	25333302	700600202	26434081	26434141
Date Sampled	16-Aug-23	02-May-23	07-Sep-22	01-Jun-22	09-Feb-22	13-Oct-21
Date Tested	24-Aug-23	09-May-23	14-Sep-22	10-Jun-22	15-Feb-22	19-Oct-21
Oil Brand	Shell	Shell	Shell	Shell	Shell	Shell
Oil Type	AeroShell W100	AeroShell W80	AeroShell W100	AeroShell W80	AeroShell W100	AeroShell W100
Oil Grade	SAE 50	SAE 40	SAE 50	SAE 40	SAE 50	SAE 50
Oil Hrs	50	47	55	52	50	45
Oil Added	1.0	1.0	1.0	1.0	1.0	1.0
Hrs Since New	2036	1985	1938	1883	2461	1780
Rebuild Hrs	2036					
Metals (ppm)						
Aluminium (Al)	10	11	7	7	7	11
Iron (Fe)	99.79	84.19	81.14	86.86	75.73	106.47
Copper (Cu)	7.62	4.02	5.43	6.87	4.98	5.12
Nickel (Ni)	29	23	19	24	32	45
Chromium (Cr)	15	12	10	14	14	19
Silver (Ag)	<1	<1	<1	<1	<1	<1
Contaminants (ppm)						
Silicon (Si)	6	5	4	7	4	5

LEGEND

Severe Abnormal Caution Normal

Sample No.	**Diagnosis/Recommendations**
44150312224	Wear metals appear normal based on trend. Resample next oil change to check wear trend.
44150304369	All values appear normal.
44150289384	All values appear normal.
44150282251	Wear metals appear normal based on trend. Resample next oil change to check wear trend.
44150274474	Wear metal(s) improved since last sample. Resample next oil change to check wear trend.
44150267361	Wear metals appear normal based on trend. Resample next oil change to check wear trend.

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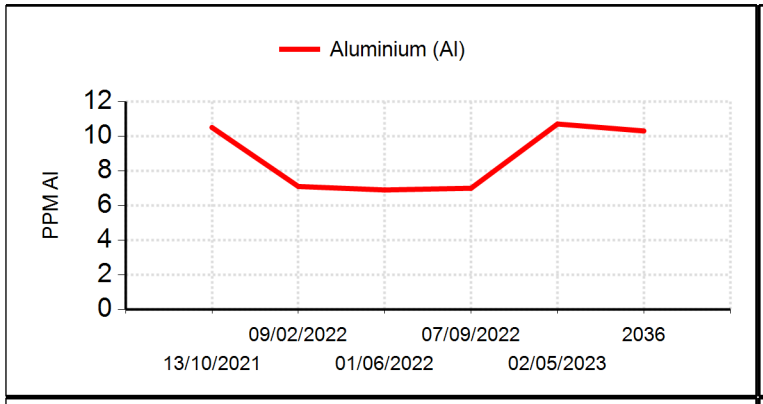

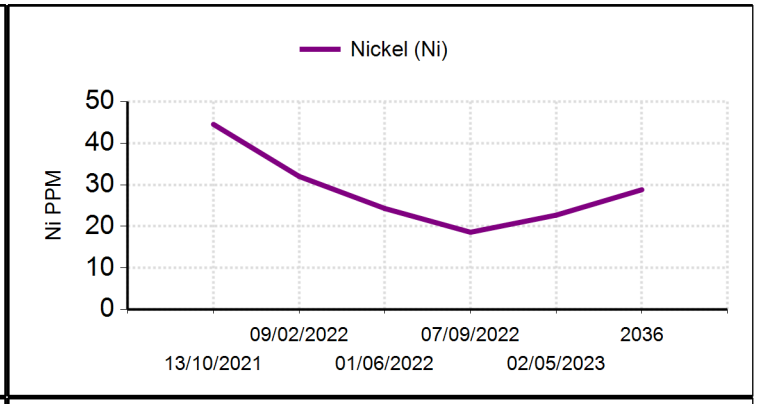

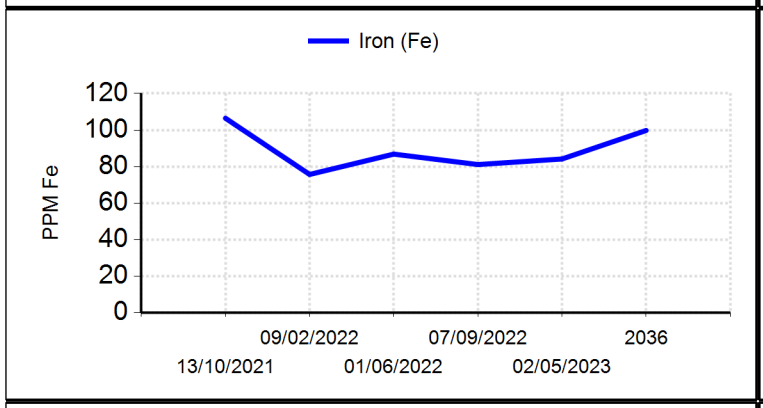

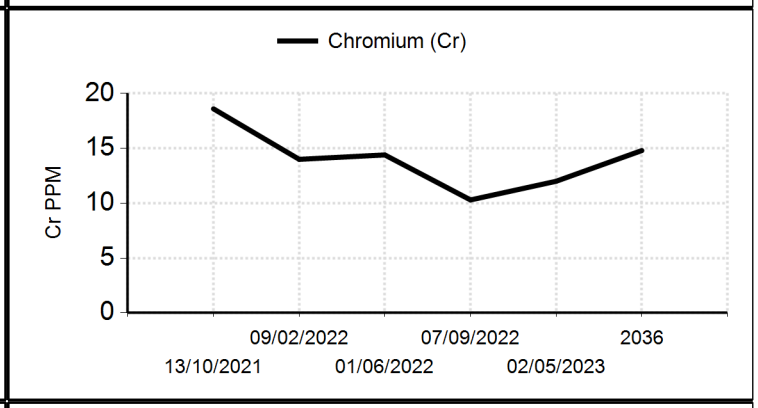

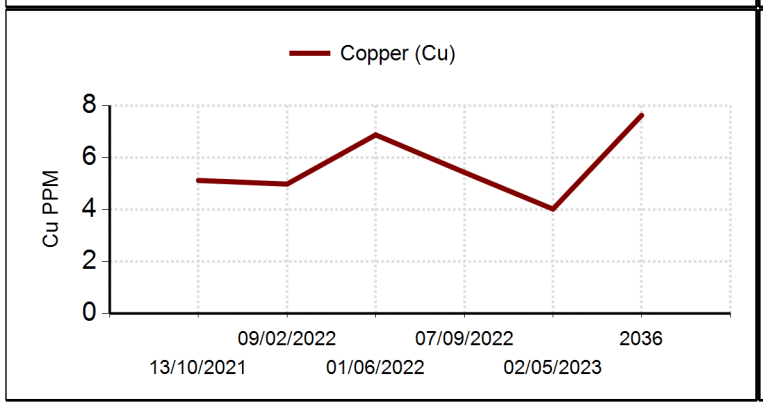

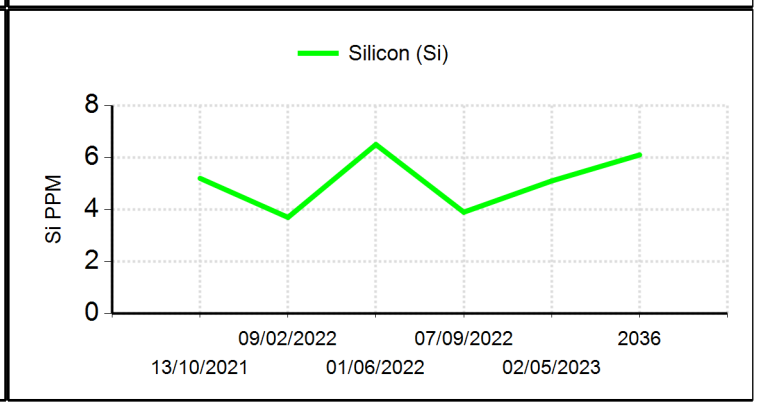

Since services are based on samples and information supplied by others, and since corrective actions, if any, are necessarily taken by others, these services are rendered without any warranty or liability of any kind beyond the actual amount paid to ALS Laboratory group for the services. Reported recommendations 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.

TEST METHODS:

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

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