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Customer Name:	COMMANDER				100000	O O	4007444
Customer Name:	COMMANDER	AERO INC		Tail Number:	N681UC	Comp Serial No:	1007141
Address:	10570 Spring Boro Pike Miamisburg OH 45342 USA			Aircraft Make:	Cirrus	Comp Name:	Single Engine
				Aircraft Model:	SR 20		
	USA				020	Comp Make:	Lycoming
Phone:	9378855580			Serial No:		Comp Model:	IO-360E
Fax:	9378855586			UIN:	0309118	•••••p•••••	10 0001
Sample No. Date Sampled Date Tested Oil Brand Oil Type Oil Grade Oil Hrs Oil Added Hrs Since New Rebuild Hrs		44150111835 15-Apr-15 21-Apr-15 Shell Aeroshell W SAE 15W50 23	44150100765 30-Sep-14 08-Oct-14 Shell Aeroshell W SAE 15W50 12	06-May-14 14-May-14 Shell Aeroshell V	4 14-Dec-12 4 27-Dec-12 Phillips 66 V XC Aviation MV		
Metals (ppm)							
Aluminium (A	I)	4	5	2	1		
Iron (Fe)		34.02	44.10	11.74			
Copper (Cu)		12.85	15.50	1.35	27.70		
Nickel (Ni) Chromium (C	r)	4 8	3	2	<1 2		
Silver (Ag)	1)	0 <1	<1	<1	<1		
Contaminants (nnm)		~ ~ ~				
Silicon (Si)	PP)	10	10	3	20		
LEGEN Severe Abnormal Cau		$\textcircled{\begin{tabular}{ c c c c } \hline \hline$		Ø			
Oswala Na Disanasia/Deservasadationa							

<u>Sample No.</u>

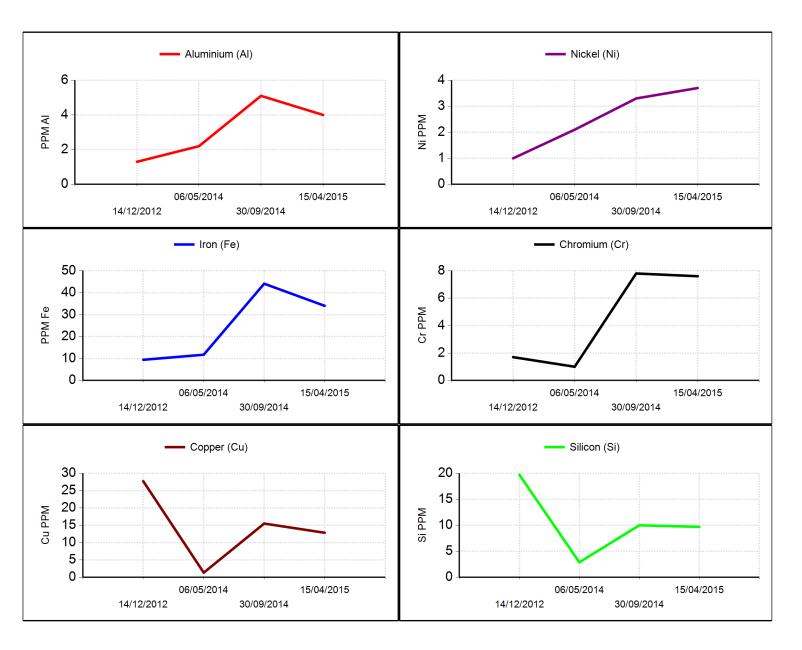
Diagnosis/Recommendations

44150111835	All values appear normal.	
44150100765	Wear metals increased for oil time. Check oil filter for chips. Resample 15 to 20 hours to monitor wear trend.	
44150091132	All values appear normal.	
44150060271	No abnormal wear detected for new engine. Resample next oil change to establish 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.

Commander Aero Inc Attn: Scherry Diamond 10570 Spring Boro Pike Miamisburg OH 45342 USA

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METHODS:						
	Acid Number:	ASTM D974/D664				
	Metals by AA Spectro:	ASTM D6595				
	Viscosity:	ASTM D445 / D7279				
	Water by Crackle:	ASTM E203 Mod / In House				
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