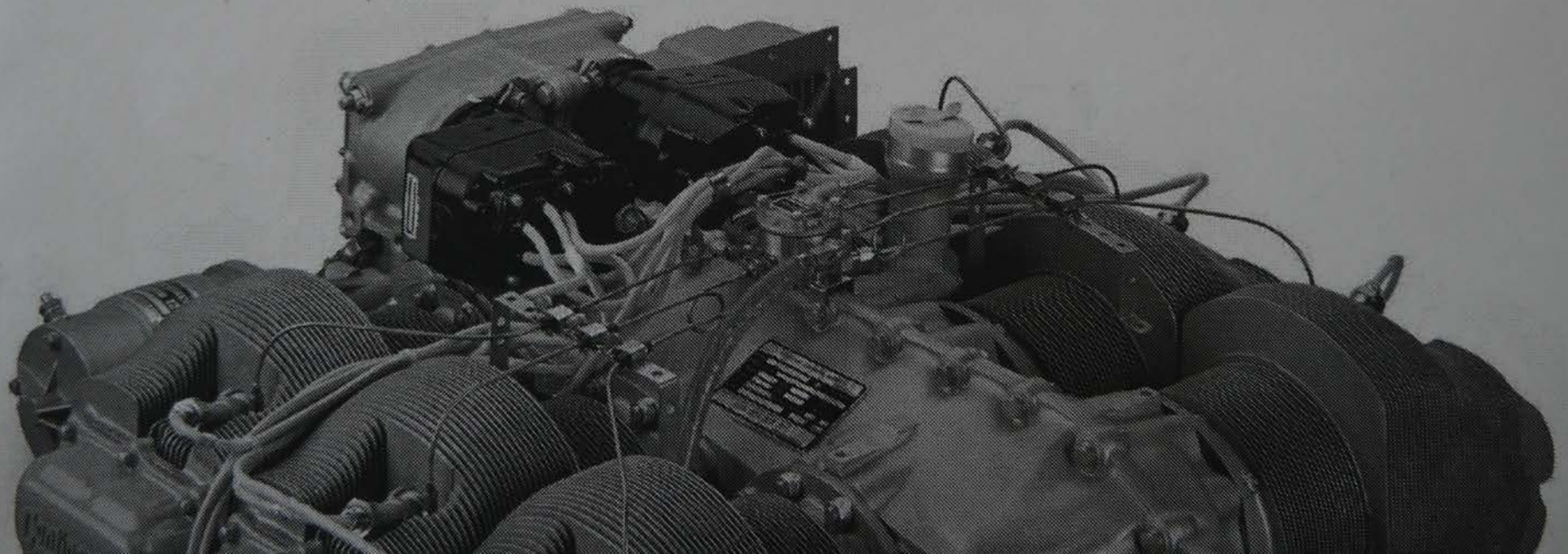


# ENGINE LOG BOOK



**Service Information**

Service Bulletins and Technical Publications are available on a direct mail basis from the factory. Orders must be prepaid. Send for order form or call 334-438-3411, publications department, for information.

**Engine Returns**

All returned engines are to be shipped with this log book Directly to:

**Engine Return Department  
2039 Broad Street  
Mobile, AL 36615**

**USE ONLY FUEL CONFORMING TO ASTM D910  
USE OF AUTOMOTIVE GAS IS NOT APPROVED.**



Printed: 04/12/2008

This engine model IO360ES21, Serial No. 360690 was manufactured on 04/11/2008 by Teledyne Continental Motors in accordance with approved design data and the applicable requirements of Part 21 of the Federal Aviation Regulation. The approved design data for this engine incorporates all changes required by applicable Airworthiness Directives and Teledyne Continental Motors Service Bulletins.



**TELEDYNE CONTINENTAL MOTORS**  
A TELEDYNE TECHNOLOGIES COMPANY  
PRODUCTION CERTIFICATE NO. 598

Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	
<b>ARAPAHOE AERO</b>					
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386					
N7789T		Continental		IO-360-ES (21)	S/N: 360690
23 September 2008		Hobbs: 0032.6		Flight Hobbs: 0024.8	
25 Hour Inspection completed this date using the Cirrus Scheduled Maintenance Form and TCM Instructions for Continued Airworthiness as a guide. Serviced engine with 7 qts. Shell 15W50. Installed new oil filter. Old filter inspected. No ferrous contaminants noted. Compression results as follows: #1) 78/80, #2) 77/80, #3) 77/80, #4) 77/80, #5) 78/80, #6) 77/80. Cleaned and resealed fuel injector nozzles. Fuel system checked per SID 97-3E. No adjustments made at this time. Ground run operational and leak check satisfactory. END.					
		L. John Wells A&P3221132		w/o 27045	
<b>ARAPAHOE AERO</b>					
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386					
N7789T		Continental		IO-360-ES (21)	S/N: 360690
15 November 2008		Hobbs: 0058.3		Flight Hobbs: 0043.7	
25 Hour Inspection completed this date using the Cirrus Scheduled Maintenance Form and TCM Instructions for Continued Airworthiness as a guide. Serviced engine with 7 qts. Shell 15W50. Installed new oil filter. Old filter inspected. No ferrous contaminants noted. Inspected ignition leads, breather and engine for condition. No defects noted. Ground run operational and leak check satisfactory. END.					
		L. John Wells A&P3221132		w/o 27232	
<b>ARAPAHOE AERO</b>					
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386					
N7789T		Continental		IO-360-ES(21)	S/N: 360690 Total Time: 95.1
13 May 2009		Flight Hobbs: 95.1		Hobbs Meter: 120.4	
100 Hour Inspection for Annual completed this date using the Cirrus SR20 Maintenance Manual Inspection Form as a guide. Compression test: #1) 76/80, #2) 75/80, #3) 76/80, #4) 70/80, #5) 76/80, #6) 75/80. Changed engine oil and filter (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Cleaned, gapped, tested, and rotated spark plugs. Rerouted and secured right hand magneto leads, no further contact with mixture control cable noted. Checked timing of magnetos to engine. Adjusted oil cooler vibration stabilizer shoe and secured check nut. Installed new cabin heat SCAT flexible air duct firewall insulation kit P/N: 70194-001. Inspected and pressure tested exhaust system. Washed engine down using solvent. Installed new induction air filter. Checked and lubricated engine and propeller controls. Post inspection engine ground run-up, operational check and leak check good. AD's checked through Biweekly 2009-10. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.					
		Scott S. Fisher A&P 3290363		w/o 27889	
<b>ARAPAHOE AERO</b>					
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386					
N7789T		Continental		IO-360-ES(21)	S/N: 360690 Engine Log Entry
22 July 2009		Flight Hobbs: 150.6		Hobbs Meter: 183.7	
Completed 50 Hour Inspection this date using Cirrus Maintenance Interval 50 Hour Inspection items as a guide. Changed engine oil and filter (Aeroshell 15W-50). Cut oil filter open and inspected, no contaminants noted. Checked oil lines for security. Inspected magneto security and ignition leads. Inspected induction and alternate air system. Inspected cylinder drains and engine case breather tube for obstructions. Inspected engine exhaust system, no defects noted. Inspected engine compartment installation hardware for security. Checked lubrication and operation of engine and propeller controls. Inspected and wiped down engine cowling. Post inspection engine ground run-up, operational and leakage check satisfactory.					
		L. John Wells A&P 3221132		w/o 28200	



CONDITION REPORT

Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

Brought **ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Total Time: 195.7  
20 October 2009 Flight Hobbs: 195.7 Hobbs Meter: 236.8  
Engine inspection completed this date using the Cirrus Maintenance Interval 100 Hour Inspection form as a guide. Compression test: #1) 78/80, #2) 78/80, #3) 78/80, #4) 76/80, #5) 78/80, #6) 78/80. Changed engine oil and filter (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Cleaned, gapped, tested, and rotated spark plugs. Adjusted timing of magnetos to engine. Inspected cylinder drains and engine case breather tube for obstructions. Adjusted #5) cylinder cooling baffle, no further contact with intake push-rod oil return tube noted. Adjusted and secured oil cooler stabilizer shoe. Inspected and pressure tested exhaust system. Inspected engine compartment installation hardware for security. Inspected induction and alternate air system. Checked and lubricated throttle and propeller controls. Post inspection engine ground run-up, operational check and leak check good. AD's checked through Biweekly 2009-21. **I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.**  
*L. John Wells*  
Greg Siekafoose A&P 521652584 w/o 28544

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Engine Log Entry  
11 February 2010 Flight Hobbs: 242.1 Hobbs Meter: 290.7  
Completed 50 Hour Inspection this date using Cirrus Maintenance Interval 50 Hour Inspection items as a guide. Changed engine oil and filter (Aeroshell 15W-50). Cut oil filter open and inspected, no contaminants noted. Checked oil lines for security. Inspected magneto security and ignition leads. Inspected induction and alternate air system. Inspected cylinder drains and engine case breather tube for obstructions. Inspected engine exhaust system, no defects noted. Inspected engine compartment installation hardware for security. Checked lubrication and operation of engine and propeller controls. Inspected and wiped down engine cowling. Post inspection engine ground run-up, operational and leakage check satisfactory.  
*L. John Wells*  
L. John Wells A&P 3221132 w/o 28708

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Total Time: 290.4  
14 May 2010 Flight Hobbs: 290.4 Hobbs Meter: 346.9  
100 Hour Inspection for Annual completed this date using the Cirrus SR20 Maintenance Manual Inspection Form as a guide. Compression test: #1) 78/80, #2) 74/80, #3) 76/80, #4) 75/80, #5) 70/80, #6) 77/80. Changed engine oil and filter (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Cleaned, gapped, tested, and rotated spark plugs. Checked timing of magnetos to engine. Leak checked fuel system. Inspected and pressure tested exhaust system. Washed engine down using solvent. Installed new induction air filter. Checked and lubricated throttle, mixture and propeller controls. Post inspection engine ground run-up, operational check and leak check good. Continental AD 2009-24-52 E (Hydraulic Lifter Rapid Wear) effective 11-18-2009, (supersedes AD 2009-24-51), does not apply by engine serial number and no intake or exhaust hydraulic lifters have been replaced after 19 June 2009, no further action required. AD's checked through Biweekly 2010-10. Post inspection engine ground run-up, operational check and leak check satisfactory. **I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.**  
*L. John Wells*  
L. John Wells A&P 3221132 w/o 29235

Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

Brought F **ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Engine Log Entry  
28 May 2010 Flight Hobbs: 292.7 Hobbs Meter: 351.5  
Remove oil pressure tower and lapped relief seat and polished plunger. Reassembled using new gasket. Operational check satisfactory.  
*L. John Wells*  
L. John Wells A&P 3221132 w/o 29330

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Engine Log Entry  
12 August 2010 Flight Hobbs: 342.1 Hobbs Meter: 408.8  
Completed 50 Hour Inspection this date using Cirrus Maintenance Interval 50 Hour Inspection items as a guide. Changed engine oil and filter (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Oil sample taken and submitted. Inspected magneto security and ignition leads. Inspected induction and alternate air system. Inspected cylinder drains and engine case breather tube for obstructions. Inspected engine exhaust system, no defects noted. Inspected engine compartment installation hardware for security. Checked lubrication and operation of engine and propeller controls. Inspected and wiped down engine cowling. Post inspection engine ground run-up, operational and leakage check satisfactory.  
*L. John Wells*  
L. John Wells A&P 3221132 w/o 29590

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Engine Log Entry  
11 February 2011 Flight Hobbs: 392.5 Hobbs Meter: 469.1  
Completed 50 Hour Inspection this date using Cirrus 50 Hour Inspection items as a guide. Changed engine oil and filter (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Oil sample taken and submitted. Inspected magneto security and ignition leads. Inspected induction and alternate air system. Cleaned plugs and injector on #4 cylinder. Inspected cylinder drains and engine case breather tube for obstructions. Inspected engine exhaust system, no defects noted. Inspected engine compartment installation hardware for security. Checked lubrication and operation of engine and propeller controls. Adjusted mixture and idle speed as needed. Inspected and wiped down engine cowling. Post inspection engine ground run-up, operational and leakage check satisfactory.  
*L. John Wells*  
L. John Wells A&P 3221132 w/o 30259



CONDITION RECORD TELE INSTR AND L BA

**Engine Service and Maintenance Record**  
Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Total Time: 434.6  
10 May 2011 Flight Hobbs: 434.6 Hobbs Meter: 517.0  
100 Hour Inspection for Annual completed this date using the Cirrus SR20 Maintenance Manual Inspection Form as a guide. Compression test: #1) 75/80, #2) 79/80, #3) 75/80, #4) 79/80, #5) 79/80, #6) 79/80. Changed engine oil and filter using (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Cleaned, gapped, tested, and rotated spark plugs. Removed left and right Bendix magnetos P/N: 10-509556-3, S/N: D08A462 and S/N: D08BA460 respectively for 500 hour inspection. Cleaned and inspected magnetos and installed new breaker points P/N: 10-382584, distributor block felt strips and washers, distributor gear snap rings, carbon brushes, and rotor seals. Cleaned, inspected and repacked magneto rotor bearings and assembled magnetos, set internal timing and tightened assembly hardware. Complied with TCM Mandatory Service Bulletin No. MSB645 (Impulse Coupling) by visual and dimensional inspection of impulse couplings and the replacement of the main spring P/N: 10-5324 as outlined in Service Bulletin. Reinstalled impulse couplings on magnetos and torqued and safetied attaching hardware. Reinstalled magnetos using new gaskets P/N: 10-400613 and set magnetos to engine timing. Next 500 hour magneto inspection due Flight Hobbs: 934.6. Cleaned and resealed fuel injection nozzles. Next fuel injection nozzle servicing due Flight Hobbs: 734.6. Inspected fuel injection system for component condition and security. Leak checked fuel system. Repaired #5) cooling baffle to prevent further chafing on intake push rod oil return tube. Adjusted and secured oil cooler stabilizer shoe. Washed engine down using solvent. Inspected and pressure tested exhaust system. Installed new induction air filter element. Checked and lubricated throttle, mixture and propeller controls. Post inspection engine ground run-up, operational check and leak check good. Continental AD 2010-11-04 (Hydraulic Lifter Rapid Wear) effective 06-16-2010, supersedes AD 2009-24-52 E, does not apply by engine serial number and no intake or exhaust hydraulic lifters have been replaced after 19 June 2009, no further action required. AD's checked through Biweekly 2011-10. Post inspection engine ground run-up, operational check and leak check good. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

*Scott S. Fisher*  
Scott S. Fisher A&P 3290363 w/o 30507

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES S/N: 360690 Engine Log Entry  
7 July 2011 Flight Hobbs: 468.6 Hobbs Meter: 558.1  
Removed and replaced #1 CHT probe with new P/N: 16578-001. Cleaned and crimped Tach lead connections at all right baffle. Applied Stabilant 22 and reassembled. Run up and operational checks okay.

*Greg M. Sickafosse*  
Greg M. Sickafosse A&P 3443687 w/o 30761

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Engine Log Entry  
15 September 2011 Flight Hobbs: 494.2 Hobbs Meter: 589.0  
Completed 50 Hour Inspection this date using Cirrus 50 Hour Inspection items as a guide. Changed engine oil and filter (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Inspected magnetos for security and condition of ignition leads. Inspected induction and alternate air system, no defects noted. Inspected engine case breather tube for obstructions. Inspected engine exhaust system, no defects noted. Inspected engine compartment installation hardware for security. Checked lubrication and operation of engine and propeller controls. Installed new cabin air duct SCAT air duct hose insulation sleeve P/N: 70194-001. Inspected and wiped down engine cowling. Post inspection engine ground run-up, operational and leakage check satisfactory.

*L. John Wells*  
L. John Wells A&P 3221132 w/o 31071

**Engine Service and Maintenance Record**  
Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Engine Log Entry  
2 February 2012 Flight Hobbs: 541.5 Hobbs Meter: 644.6  
Completed 50 Hour Inspection this date using Cirrus 50 Hour Inspection items as a guide. Changed engine oil and filter (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Inspected magnetos for security and condition of ignition leads. Inspected induction and alternate air system. Inspected cylinder drains and engine case breather tube for obstructions. Inspected engine exhaust system, no defects noted. Inspected engine compartment installation hardware for security. Checked lubrication and operation of engine and propeller controls. Inspected and wiped down engine cowling. Post inspection engine ground run-up, operational and leakage check satisfactory.

*L. John Wells*  
L. John Wells A&P 3221132 w/o 31540

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Total Time: 583.6  
4 May 2012 Flight Hobbs: 583.6 Hobbs Meter: 692.4  
100 Hour Inspection for Annual completed this date using the Cirrus SR20 Maintenance Manual Inspection Form as a guide. Compression test: #1) 77/80, #2) 75/80, #3) 72/80, #4) 74/80, #5) 72/80, #6) 74/80. Changed engine oil and filter using (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Installed (12) new Champion RHM38E sparkplugs. Checked timing of magnetos to engine. Inspected fuel injection system for component condition and security. Leak checked fuel system. Inspected alternator belt, adjusted tension and installed new safeties. Secured cooling baffle seal adjacent to #1) cylinder. Installed and sealed knock-out plug in forward cooling baffle using high temperature RTV sealant. Washed engine down using solvent. Inspected and pressure tested exhaust system. Installed new induction air filter element. Checked and lubricated throttle, mixture and propeller controls. Continental AD 2011-26-07 (Slick Magneto Impulse Coupling Stop Pin) effective 12-24-2012, does not apply. Bendix magnetos are installed, no further action required. Superior Air Parts AD 2012-03-06 C (AFS) Fuel Servo Diaphragm effective 02-24-2012, supersedes AD 2011-15-10, does not apply. TCM fuel injection system is installed, no further action required. AD's checked through Biweekly 2012-08. Post inspection engine ground run-up, operational check and leak check good. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

*Greg Sickafosse*  
Greg Sickafosse A&P 3443687 w/o 31830

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Engine Log Entry  
11 September 2012 Flight Hobbs: 641.7 Hobbs Meter: 760.8  
Completed 50 Hour Inspection this date using Cirrus 50 Hour Inspection items as a guide. Changed engine oil and filter (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Inspected magnetos for security and condition of ignition leads. Inspected induction and alternate air system. Inspected cylinder drains and engine case breather tube for obstructions. Inspected engine exhaust system, no defects noted. Inspected engine compartment installation hardware for security. Checked lubrication and operation of engine and propeller controls. Inspected and wiped down engine cowling. Post inspection engine ground run-up, operational and leakage check satisfactory.

*L. John Wells*  
L. John Wells A&P 3221132 w/o 32357

Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

Brought Forward

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Total Time: 691.3  
01 May 2013 Flight Hobbs: 691.3 Hobbs Meter: 819.1  
100 Hour Inspection for Annual completed this date using the Cirrus SR20 Maintenance Manual Inspection Form as a guide. Compression test: #1) 76/80, #2) 76/80, #3) 77/80, #4) 76/80, #5) 74/80, #6) 74/80. Changed engine oil and filter using (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Installed new oil filler neck cap gasket P/N: 533355D. Cleaned, inspected, gapped, tested, and rotated spark plugs. Adjusted timing of magnetos to engine. Inspected fuel injection system for component condition and security. Cleaned and resealed fuel injection nozzles. **Next fuel injection nozzle servicing due Flight Hobbs: 991.3.** Leak checked fuel system. Inspected oil cooler for condition and security and adjusted and secured stabilizer shoe. Washed engine down using solvent. Inspected and pressure tested exhaust system. Installed new induction air filter element. Checked and lubricated throttle, mixture and propeller controls. Inspected engine mount weldments for condition and security and torqued lower weldment mounting bolts. **Complied with Cirrus SB 2X-71-10 R2 (Oil Breather Line Insulation Sleeve Support)** by installing Kit No. 70230-001 with new oil breather line support and engine intake Adel clamp. No further action required. **Continental SAIB NE-13-15 (Throttle and Mixture Control Levers)** dated 02-08-2013, does not apply, installed throttle and mixture control levers are manufactured from stainless steel material, no further action required. AD's checked through Biweekly 2013-08. Post inspection engine ground run-up, operational check and leak check satisfactory. **I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.**  
*L. John Wells*  
L. John Wells A&P 3221132 w/o 33054

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Engine Log Entry  
22 July 2013 Flight Hobbs: 745.8 Hobbs Meter:  
Completed 50 Hour Inspection this date using Cirrus 50 Hour Inspection items as a guide. Changed engine oil and filter (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Inspected magnetos for security and condition of ignition leads. Inspected induction and alternate air system. Inspected cylinder drains and engine case breather tube for obstructions. Inspected engine exhaust system, no defects noted. Inspected engine compartment installation hardware for security. Checked lubrication and operation of engine and propeller controls. Inspected and wiped down engine cowling. Post inspection engine ground run-up, operational and leakage check satisfactory.  
*Jason Daniel Schauf*  
Jason Daniel Schauf A&P 3551738 w/o 33370

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Engine Log Entry  
14 December 2013 Flight Hobbs: 806.3 Hobbs Meter: 948.1  
Completed 50 Hour Inspection this date using Cirrus 50 Hour Inspection items as a guide. Changed engine oil and filter (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Inspected magnetos for security and condition of ignition leads. Inspected induction and alternate air system. Inspected cylinder drains and engine case breather tube for obstructions. Inspected engine exhaust system, no defects noted. Inspected engine compartment installation hardware for security. Checked lubrication and operation of engine and propeller controls. Inspected and wiped down engine cowling. Post inspection engine ground run-up, operational and leakage check satisfactory.  
*L. John Wells*  
L. John Wells A&P321132 w/o 33897

Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

Brought Forward

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Engine Log Entry  
28 February 2014 Flight Hobbs: 855.8 Hobbs Meter: 1000.3  
Completed 50 Hour Inspection this date using Cirrus 50 Hour Inspection items as a guide. Changed engine oil and filter (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Inspected cylinder drains and engine case breather tube for obstructions. Inspected engine exhaust system. Inspected magnetos for security and condition of ignition leads. Inspected induction and alternate air system. Inspected engine compartment installation hardware for security. Checked lubrication and operation of engine and propeller controls. Inspected and wiped down engine cowling. Post inspection engine ground run-up, operational and leakage check satisfactory.  
*Randy J. Knox, Jr.*  
Randy J. Knox, Jr. A&P 3227973 w/o 34122

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Engine Log Entry  
18 April 2014 Flight Hobbs: 895.0 Hobbs Meter: 1043.9  
Completed 50 Hour Inspection this date using Cirrus 50 Hour Inspection items as a guide. Changed engine oil and filter (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Inspected magnetos for security and condition of ignition leads. Inspected induction and alternate air system. Inspected cylinder drains and engine case breather tube for obstructions. Inspected engine exhaust system, no defects noted. Inspected engine compartment installation hardware for security. Checked lubrication and operation of engine and propeller controls. Inspected and wiped down engine cowling. Post inspection engine ground run-up, operational and leakage check satisfactory.  
*Randy J. Knox, Jr.*  
Randy J. Knox, Jr. A&P 3227973 w/o 34282

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Total Time: 924.3  
14 June 2014 Flight Hobbs: 924.3 Hobbs Meter: 1076.5  
100 Hour Inspection for Annual completed this date using the Cirrus SR20 Maintenance Manual Inspection Form as a guide. Compression test: #1) 77/80, #2) 77/80, #3) 77/80, #4) 77/80, #5) 77/80, #6) 76/80. Changed engine oil and filter using (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Cleaned, inspected, gapped, tested, and rotated spark plugs. Removed left and right Bendix magnetos P/N: 10-500556-3, S/N: D08BA462 and S/N: D08BA460 respectively for 500 hour inspection. Cleaned and inspected magnetos and installed new breaker points P/N: 10-382585, distributor block felt strips and washers, distributor gear snap rings, carbon brushes, and rotor seals. Cleaned, inspected and repacked magneto rotor bearings and assembled magnetos, set internal timing and tightened assembly hardware. Complied with TCM Mandatory Service Bulletin No. MSB645 (Impulse Coupling) by visual and dimensional inspection of impulse couplings and the replacement of the main spring P/N: 10-51324 as outlined in Service Bulletin. Reinstalled impulse couplings on magnetos and torqued and safetied attaching hardware. Reinstalled left and right magnetos using new gaskets P/N: 10-100613 and set magneto to engine timing. **Next 500 hour magneto inspection due Flight Hobbs: 1424.3.** Inspected fuel injection system for component condition and security. Leak checked fuel system. Torqued and safetied oil pressure adjustment housing. Inspected oil cooler for condition and security and checked adjustment and safety of stabilizer shoe. Inspected cooling baffles and seals for condition and security. Cleaned and affixed side cooling baffle chafe strips. Wiped down engine using solvent. Inspected and pressure tested exhaust system. Installed new induction air filter element. Inspected and lubricated throttle, mixture and propeller controls, operational check good. Inspected engine preheat system for component condition and security. Engine preheat system operational check satisfactory. AD's checked through Biweekly 2014-11. Post inspection engine ground run-up, operational check and leak check satisfactory. **I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.**  
*L. John Wells*  
L. John Wells A&P 3221132 w/o 33054

**Engine Service and Maintenance Record**  
Installations, Inspections, Airworthiness Directives, Special Inspections,  
Modifications and Service Bulletins

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.
<b>Brought</b> ENGINE MODEL: IO-360-ES(21) Clear Star Aviation ENGINE S/N: 360690 Repair Station No. 5CSR0098 REG. NO. N7797 4765 Frank Luke Dr WORK ORDER: 114875 Address: TX 75001 Phone: 972-267-2376				
<b>Engine Entries</b> The oil and filter was changed and serviced with 8 quarts of Aero-shell 15W-50 and a new AA45106-2 filter. An oil sample was collected for analysis by Blackstone Laboratories. Partner details of repair are on file at this Certified Repair Station 5CSR0098. DATE: 9/9/2014 SIGNED: <i>[Signature]</i> Work Order: 114875 Mervin Adams Certified Repair Station No. 5CSR0098 Printed by EBis 3 (datamedia.com)				

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Engine Log Entry  
13 December 2014 Flight Hobbs: 1023.3 Hobbs Meter: 1188.0  
Completed 50 Hour Inspection this date using Cirrus 50 Hour Inspection items as a guide. Changed engine oil and filter (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Inspected magnetos for security and condition of ignition leads. Inspected induction and alternate air system. Inspected cylinder drains and engine case breather tube for obstructions. Inspected engine exhaust system, no defects noted. Inspected engine compartment installation hardware for security. Checked lubrication and operation of engine and propeller controls. Inspected and wiped down engine cowling. Post inspection engine ground run-up, operational and leakage check satisfactory.  
*[Signature]*  
Nathaniel Alan Beutheil A&P 3659835 w/o 35123

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Total Time: 1080.3  
25 June 2015 Flight Hobbs: 1080.3 Hobbs Meter: 1252.0  
100 Hour Inspection for Annual completed this date using the Cirrus SR20 Maintenance Manual Inspection Form as a guide. Compression test: #1) 78/80, #2) 75/80, #3) 71/80, #4) 69/80, #5) 71/80, #6) 71/80. Changed engine oil and filter using (Aeroshell 15W-50). Cut oil filter open and inspected, no ferrous contaminants noted. Cleaned, inspected, gapped, tested, and rotated spark plugs. Checked timing of magnetos to engine. Cleaned and resealed fuel injection nozzles. Next fuel injection nozzle servicing due Flight Hobbs: 1380.3. Inspected fuel injection system for component condition and security. Leak checked fuel system. Inspected oil cooler for condition and security and checked adjustment and safety of stabilizer shoe. Inspected cooling baffles and seals for condition and security. Cleaned and affixed side cooling baffle chafe strips. Wiped down engine using solvent. Installed new heat exchanger P/N: 20559-004 and new muffler P/N: 20560-001 using new safeties. Next replacements due Flight Hobbs: 2080.3. Inspected and pressure tested exhaust system. Installed new induction air filter element. Inspected and lubricated throttle, mixture and propeller controls, operational check good. Repaired and secured cabin air inlet SCEET air duct hose. Inspected engine preheat system for component condition and security. Engine preheat system operational check satisfactory. AD's checked through Biweekly 2015-12. Post inspection engine ground run-up, operational check and leak check satisfactory. **I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.**  
*[Signature]*  
L. John Wells A&P 3221132 w/o 35698

**Engine Service and Maintenance Record**  
Installations, Inspections, Airworthiness Directives, Special Inspections,  
Modifications and Service Bulletins

Date	Total Time		Time Since Last Overhaul	
	Hrs.	Min.	Hrs.	Min.
<b>Brought</b> ENGINE MODEL: IO-360-ES(21) Clear Star Aviation ENGINE S/N: 360690 Repair Station No. 5CSR0098 REG. NO. N7797 4765 Frank Luke Dr WORK ORDER: 200126 Address: TX 75001 Phone: 972-267-2376				
<b>Engine Entries</b> The oil and filter was changed and serviced with 8 quarts of Aero shell 15W-50 and a new AA45106-2 filter. An oil sample was collected for analysis by Blackstone Laboratories. This aircraft/component is determined to be in an airworthy condition is ok for return to service. Partner details of repair are on file at this Certified Repair Station 5CSR0098. DATE: 5/23/2016 SIGNED: <i>[Signature]</i> Work Order: 200126 May, Kevin Certified Repair Station No. 5CSR0098 Printed by EBis 3 (datamedia.com)				

**ARAPAHOE AERO**  
12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
N7789T Continental IO-360-ES(21) S/N: 360690 Engine Log Entry  
7/1/2016 Flight Hobbs: 1157.3 Hobbs Meter: 1157.3  
Performed engine 100 HR inspection in accordance with current Cirrus Design Aircraft Maintenance Manual 5-20 and 5-30. The cylinder compression was checked with the following results: #1, 76/80 #2, 70/80 #3, 66/80 #4, 73/80 #5, 74/80 #6, 72/80 psi. Master cylinder 42/80. The oil and filter was changed and serviced with 8 quarts of AeroShell 15W50 and a new AA45106-2 filter. An oil sample was collected for analysis by Blackstone Laboratories. Cleaned all fuel injectors and re-installed with new seals. Replaced air cover o-ring on starter drive adapter. Replaced all spark plugs with new spark plugs PIN RHM38E. Cleaned spark plug leads.  
Reviewed AD's through 6-weekly issue of this date, all AD's are in compliance at this time. I certify that this engine has been inspected in accordance with a 100 HR inspection and was determined to be in airworthy condition. I have reviewed the file on this aircraft and the accompanying discrepancy items. The aircraft, airframe, aircraft engine, propeller, or appliance identified was repaired/inspected in accordance with current requirements of the Federal Aviation Administration and is approved for return to service. Partner details of repair are on file at this Certified Repair Station 5CSR0098.  
DATE: 7/1/2016 SIGNED: *[Signature]* Work Order: 200158  
May, Kevin Certified Repair Station No. 5CSR0098 Printed by EBis 3 (datamedia.com)

**FLIGHTLINE**  
3256 Capital Circle SW  
Tallahassee, Florida 32310  
Phone: 900-376-5818  
DATE: 3/3/2017  
AC: 329  
HOBBS: 1211.6  
Airframe Entries  
Changed oil and filter (7 qts. 15W50 oil, CH46106-1 filter) Wash and run engine. Ops. ck. good, no leaks. Removed and replaced Left wing lift Nuts right Ref. Cirrus MM 33-40-00 Ops checked good.  
The aircraft, airframe, propeller or appliance listed above was inspected and/or repaired Ref. current FAR's and is approved for return to service ONLY regarding the above subject(s). This release in no way certifies current or future airworthiness of the aircraft.  
DATE: 3/3/2017 SIGNED: *[Signature]* Work Order: 9274-03-2017  
Andy Baker, A&P 350910 Printed by EBis 3 (datamedia.com)

Date	Total Time		Time Since Last Overhaul		<b>Engine Service and Maintenance Record</b> Installations, Inspections, Airworthiness Directives, Special Inspections, Modifications and Service Bulletins
	Hrs.	Min.	Hrs.	Min.	

Brought Forward →

Sarasota Avionics Inc Tampa (TPA) **Engine**  
 845 Severn Ave. Tampa, FL 33606  
 Tail No.: N7789T Continental:10-360-ES21 Serial Number:360690  
 Date:7/21/17 Work Order: M359  
 Tach:1272.3 TSMOH:1272.3



Compression:1=74 2=73 3=62 4=72 5=55 6=72. Drain oil. Took sample. Install new CH48108-1 oil filter. Cut and inspect old filter and found no contamination. Service engine with 3qts AS15W50. Installed new induction filter. Checked magneto timing. Clean, gap and check all plugs. Lube all rod ends. Performed ground op/leak check noting no discrepancies. All AD's through 7/21/2017 checked and complied with.

I certify all work done to the aircraft and/or component identified above was done in accordance with an annual inspection and current regulations of the Federal Aviation Administration and was found approved for return to service with respect to the work performed.

*Wayne E. Childers Jackson*

Wayne E. Childers Jackson A&P34401601A

Date	Total Time		Time Since Last Overhaul		<b>Engine Servi</b> Installations, Inspectio Modifications and Ser
	Hrs.	Min.	Hrs.	Min.	

Brought Forward →

**AIRCRAFT STATUS SHEET  
AND COMPLIANCE REPORT**

**N7789T**

**CIRRUS**

**SR20**

**S/N: 20-1989**



**N7789T**  
**AIRCRAFT STATUS SHEET**  
**CIRRUS SR20 S/N: 20-1989**

1	Annual Inspection Due	July	2018
2	Aircraft Registration Expiration date	May	2018
3	ELT Batteries due	February	2020
4	Remote ELT arming switch battery due	June	2019
5	Artex 406 MHz ELF Aircraft Owner Registration due every 24 months or change in original registration data	June 9	2019
6	Transponder, Altimeter, Altitude Reporter, and Static System Certification due	July	2018
7	Number 2 Battery due every 24 months or 500 hours	July	2018
		Hobbs	1657.3
8	Cirrus SA 06-06 [MCU Corrosion Inspection] due every Annual or 100 hours	July	2018
		Hobbs	1372.3
9	Cirrus SB 2X-32-19R3 (Nose Landing Gear Inspection due Annual or 100 hours	July	2018
		Hobbs	1372.3
10	Magneto Inspection due every 500 hours	Hobbs	1424.3
11	Continental Service Bulletin No MSB645 (Impulse Coupling) due every 500 hours	Hobbs	1424.3
12	Continental Fuel Injection Nozzle Servicing due every 300 hours	Hobbs	1380.3
13	Bracket Induction Air Filter due every Annual or 200 hours	July	2018
		Hobbs	1472.3
		Hobbs	2080.3
14	Exhaust Muffler Replacement due every 1000 hours	December	2017
15	CAPS Rocket Motor due every 10 years	April	2018
16	CAPS Parachute due every 10 years	May	2020
17	CAPS Reefing Line Cutter due every 6 years	September	2021
18	EMA Controller, AAIR	January	2018
19	Pilot Seat Inflator Assembly, AAIR	January	2018
20	Co-Pilot Seat Inflator Assembly, AAIR	January	2018

(Note: All above listed "Hobbs" times are in reference to the Flight Hobbs Meter.)

Date: July 21, 2017	Flight Hobbs	1272.3
	Hobbs Meter	1471.2
Aircraft Total Time	1272.3	
Engine Total Time	1272.3	
Propeller Total Time	1272.3	
Propeller Calendar Time	9 Years 2 Months	

Customer Copy



Form No. QA-85

**Teledyne Continental Motors, Inc.**  
A Teledyne Technologies Company

**Engine Component Information Sheet**

Printed: 04/12/2008

Serial: 360690 Assembled: 04/10/2008  
 Spec: I0360ES21B Shipped:  
 New/Rebuilt: (NEW) Packed: 04/12/2008

Customer Name: CIRRUS DESIGN CORPORATION

Shipping Address:

Component	Serial Number	Component	Serial Number
CAMSHAFT	Z07LA050	OIL COOLER	B06-6608-124
CRANKSHAFT	N08AA205	CYLINDER-1	AC08CA148
CRANKCASE	S08CA005	CYLINDER - 2	AC08AB391
CONNROD	AE08CA072	CYLINDER - 3	AC08AB390
CONNROD	AE08CA102	CYLINDER - 4	AC08AB376
CONNROD	AE08CA095	CYLINDER - 5	AC08AA620
CONNROD	AE08CA107	CYLINDER - 6	AC08AB404
CONNROD	AE08CA059	NOZZLE - 1	1173
CONNROD	AE08CA097	NOZZLE - 2	2180
L MAGNETO	D08BA462	NOZZLE - 3	3183
R MAGNETO	D08BA460	NOZZLE - 4	4178
FUEL PUMP	B08CA264	NOZZLE - 5	5178
MANIFOLD VALVE	C08CA204	NOZZLE - 6	6175
METERING UNIT	A08CA184	PSTN WGT	WK
STARTER	07 254 0006		
ALTERNATOR	I011428		

Pack Inspection Stamp



All of the information provided herein is subject to verification by the user. Teledyne Continental Motors, Inc. makes no representation or warranty concerning the accuracy or completeness of the information and assumes no responsibility with respect thereto.

INSURE 12.5  
 MAIN OIL GALLERY  
 065300

TCM Engine Model	IO-360ES21B
TCM Serial#	360690
Test Document	TH-3209 Rev F
Software Release#	1.98, 05/13/04
Start Time	4/11/08, 06:54:37
Accepted Time	4/11/08, 08:41:14
Cell# & Operator	SS/ B, 29274
Sea Level Power	210 HP @ 2800RPM
Vapor Pressure	0.73 in HG
Temp, Wet Baro	77.09 F, 29.88 in HG

## Teledyne Continental Motors Aircraft Engine Standard Acceptance Test Log

Test Club#	CS10BA
Rqd Pitch	14" ± .5"
Actual Pitch	14"
Mixture Check	PASS
Alternator Check	N/A

Mag Data	Required	Actual
Eng Speed Both	2100	2097
Eng Speed Right	N/A	2010
Right Mag Drop	150	87
Eng Speed Left	N/A	1990
Left Mag Drop	150	104
Mag Drop Spread	50	20
Fuel Flow (Ref.)	45	45

Note: Magneto check between Run 2 & 3

Run Information	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Run 8
Time Of Day	07:05:49	07:06:58	07:10:31	07:17:12	07:26:34	07:40:05	08:18:27	08:30:27
Run Time Rqd (MM:SS)	01:00	01:00	01:00	10:00	10:00	01:00	10:00	05:00
Run Time	01:00	01:00	01:36	10:00	10:00	01:00	10:00	05:00
Prop Speed Rqd (RPM)	1175-1225	1575-1625	2425-2475	2816-2866	2573-2598	575-625	2573-2598	2574-2599
Prop Speed	1196	1614	2448	2839	2578	624	2585	2582
Manifold Press Rqd (inHg)	N/A	N/A	N/A	26.2-29.2	N/A	21.0 MAX	N/A	N/A
Manifold Press	11.0	13.9	23.0	28.4	24.4	13.7	24.3	24.0
Turbo Dis Press Rqd (inHg)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Turbo Dis Press	28.6	28.6	28.8	29.1	29.2	28.9	28.8	29.0
Fuel Flow Rqd (lb/hr)	N/A	N/A	N/A	102.3-108.3	73.2-85.2	N/A	N/A	N/A
Fuel Flow	0.0	14.2	65.3	104.5	73.2	6.8	70.7	69.8
Nozzle Press Rqd (PSID)	N/A	N/A	N/A	15.0-16.0	8.7-10.7	N/A	N/A	N/A
Nozzle Press	4.0	4.4	9.3	16.0	10.2	3.8	9.9	9.9
Fuel Pump Press Rqd (PSIG)	N/A	N/A	N/A	22.5 REF	N/A	7.0-9.0	N/A	N/A
Fuel Pump Press	10.3	13.0	19.8	23.3	21.3	7.8	20.5	20.6
Fuel Temp Rqd (*F)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fuel Temp	62	60	59	57	59	65	60	59
Ambient Temp Rqd (*F)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient Temp	73	73	73	73	74	74	74	75
Eng Inlet Oil Temp Rqd (*F)	90-240	120-240	165-240	180-240	165-240	140-240	165-240	165-240
Eng Inlet Oil Temp	132	142	165	216	213	180	165	181
Eng Oil Press Rqd (PSIG)	30.0 MIN	30.0 MIN	30.0 MIN	35.7-66.2	30.0 MIN	16.7 MIN	30.0 MIN	30.0 MIN
Eng Oil Press	61.8	65.4	56.3	45.5	45.6	28.1	57.6	54.8
Min Cylinder Temp Rqd (*F)	150 MIN	175 MIN	250 MIN	250 MIN	250 MIN	N/A	250 MIN	250 MIN
Max Cylinder Temp Rqd (*F)	460 MAX	460 MAX	460 MAX	460 MAX	460 MAX	460 MAX	460 MAX	460 MAX
Cylinder 1 Temp	239	252	304	390	360	247	322	287
Cylinder 2 Temp	219	243	316	361	366	228	330	302
Cylinder 3 Temp	266	277	291	372	332	170	310	255
Cylinder 4 Temp	183	213	271	303	320	154	290	251
Cylinder 5 Temp	209	225	291	343	318	236	298	286
Cylinder 6 Temp	187	204	281	307	316	214	291	281
Collar Press Differential Rqd (PSID)	N/A	N/A	N/A	24.6 MIN	N/A	N/A	N/A	N/A
Collar Press Differential	61.4	65.0	55.7	44.6	44.7	27.1	56.8	54.0

PRESSURE 35.5  
RS MAIN OIL GA