

1925



# ENGINE LOG

RYAN AERONAUTICAL COMPANY

NOTE: CONTINENTAL E-185-9 S/N 5905D-9-9  
Removed from NAVION N 4251K  
on 4 Dec 1953

New CONTINENTAL E-225-4 S/N 30029-D-3-4  
Installed 4 Dec. 1953 with zero TIME

## IDENTIFICATION

Manufacturer Continental Model E-185-9 Serial No. 5905D-9-9  
Owner Yoder MFG Co Address 1823 E 17th St  
SW yoder  
Home Phone 39006 Business Phone 4-1868  
City Little Rock State Arkansas

*Time Recorder When engine was installed 3484*

DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS <b>RYAN SERVICE DEPT!</b>	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
1950	Hrs.	Min.									
10-2	1	30							<b>FLIGHT TEST</b> <i>Oct. 2, 1950. Removed engine 2614D,                      installed Continental 5905D-9-9, and                      starter relay. Meter Reading 348 hr</i>		
6-20	101	30					Meter 449:30				
11-30	149	00	Meter	59430			25430				
7/18/53	249	30	✓	850			50200				
<div style="border: 2px solid black; padding: 10px; width: fit-content; margin: auto;"> <p>RYAN AERONAUTICAL COMPANY SERVICE DEPARTMENT</p> <p><i>Clark E. Huston</i></p> <p>Clark E. Huston, Inspector A&amp;E 349239</p> </div>											
CARRY TOTALS FORWARD TO TOP OF NEXT PAGE											









ITE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
									11-5-57		
									Disassemble prop, Install new crankshaft oil seal, prop diaphragm, and front thrust bearing also new servo O-rings oil change this date.		
									M. J. Kaul AE 504254		
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DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
19	Hrs.	Min.									
12/455	New Tach Log		4 15 00		Dec 4 1953						
10/757	Tach Reading		1194		209		Continental Engine Ser no 59058				
H/10/56	"		"		1154		269 hr		E-185-9 Removed from ship and Continental E-225-4 serial no 300298-3-5 installed Hartzell constant speed governor drive installed according to Hartzell drawings. William J. Stokes A-E 67689-41		
CARRY TOTALS FORWARD TO TOP OF NEXT PAGE											









DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	SER NO
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
1957											
			Total time 380 hrs.								
1-11			<p>This engine was removed from aircraft and given major overhaul due to a belly landing. New crankshaft was installed; all new main &amp; rod bearings std. were installed; new type wrist pins were installed; new standard rings, valves were ground &amp; new exhaust guide were installed; new accessory drive gear was installed; all new lifter bodies were installed; all steel parts were magnafluxed; all parts were cleaned inspected &amp; repainted; all accessories</p>								
Cont. next page											

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DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
			Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
	Hrs.	Min.									
									<p>           were overhauled; Magneto's were overhauled            new joints, Condensers, sealed bearings,            generator, new bearings, brushes &amp; seals; Starter            was overhauled &amp; new brushes installed;            Carburetor, fuel pump, hydraulic pump            &amp; prop governor were overhauled by            Standard Products of Wichita Kansas;            new ignition harness was installed;            all new spark plugs; the engine was            assembled with new gaskets, and was            run in to manufacturer specs. and is            airworthy. Engine was given 5:54 minutes            of run in and is airworthy         </p>		
CARRY TOTALS FORWARD TO TOP OF NEXT PAGE									<p>           Jack W. Swartz O&amp;E 1165799         </p>		

Tach Reading 1295:00

DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	SER NO
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
1957											
1-11									<p>New Dartz Propeller blades were installed in hub, hub was magnafland &amp; balanced by West Aircraft Corp. St. Louis.</p> <p>Jack W. Smart AOE 1165799</p>		
5-3									<p>2195<sup>23</sup> 100 hr inspection completed; oil was changed &amp; was checked; new T drive for prop governor &amp; hyd. pump were installed; spark plugs were cleaned &amp; gaped; replace exhaust gaskets to H Engine cover &amp; baffles repaired; # 3 prop seal leak repaired; oil line repaired; clean carb. fuel screens; magnetos were checked; engine baffles repaired; engine was run &amp; is airworthy</p> <p>Jack W. Smart AOE 1165799</p>		

CARRY TOTALS FORWARD TO TOP OF NEXT PAGE

DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
058											
1-25	4	20					920		tack time. Hartzel T drive was removed from engine & standard hydraulic system installed for operation of propeller; hydraulic pump was installed on engine case as original installation; oil was changed & screens were checked; engine was run & test flow is airworthy. Jack W. Surrency AD E 1165799		
2-1	4	50							oil was changed & screens were cleaned. Jack W. Surrency AD E 1165799		
CARRY TOTALS FORWARD TO TOP OF NEXT PAGE											

DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
1958											
7-15							480		<p>tack time</p> <p>100 hrs was completed for periodic inspection; oil was changed &amp; screws were checked; generator was removed &amp; new armature was installed; voltage regulator was adjusted; magnets &amp; spark plugs were checked &amp; cleaned; Carb. was cleaned &amp; mixture control adjusted; engine was run and is airworthy;</p> <p>Jack W. Smart A &amp; E 1165799</p>		
CARRY TOTALS FORWARD TO TOP OF NEXT PAGE											

DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
058	Hrs.	Min.									
5-9							482	30	Engine given thorough check due to trouble up landing. Crankshaft run out completed on .002 was total dead reading; all engine mounts & fittings checked for damage; oil and drain & screen checked, was O.K. recommended that this be done at 15 hrs to determine if any internal damage will result from accident, and insurance Co. agree to this arrangement; L. H. magnets removed & oil seal installed & bearings lubricated; engine was run and is airworthy.		
Jack W. Swartz											
A & E 1165799											
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DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
19											
7/17/59									Tach Read 631.0 hrs 100 hr Insp this date for Relicense, ck points, plugs cleaned & tested ok, cleaned all oil & fuel screens tightened engine. Starter removed & torqued at 200 ft lbs by Precision Aeromotive Houston, Tex. Batt. charged & Prop serviced. This engine considered airworthy this date. oil changed (628.0 hrs)		
									Chas Emmett A & P 1330804 DATE July 17, 1959 4:15:0 I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>Periodic</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. Richard B. Kelly INSPECTION AUTHORITY DERIVED FROM FEDERAL AVIATION ADMINISTRATION A & P		
CARRY TOTALS FORWARD TO TOP OF NEXT PAGE											

TE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
	Hrs.	Min.									
									10-6-59		
									Removed Bendix type SCE14 starter & installed Eclipse Type E80 starter 10-6-59 Ray P. Kenny T.C. 782		
									NAVION DIV. OF TUSCO CORP. P. O. Box 3126 Galveston, Tex. T. C. 782		
									9/28/59 installed new Paint & Coats in Bath map. Charles Emmitt A&E 1530834		
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DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT NO.	
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.				
19 59	Hrs.	Min.										
12/24	Tach	Time	684	40					oil changed, piscoft 80, Humble oil 850. put in Engine Charles Linnell A+E 1330834			
2/5/61	Tach Reading	815:00							} Checked & Computed by C. McHenry A+E 494437			
	Computed -	520 00	-	-	900 00							
6/13/61	Wash down engine - check for oil leaks - replace crush washer in oil cooler plug - removed Voltage regulator & had it checked by Precision Aeromotive - C. D. Pal A+E 1163491											
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DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
7/31/41	10	5							<p>Inspection, changed oil, checked &amp; cleaned screens, checked Magns, checked &amp; cleaned spark Plugs, Repaired Generator, checked, Greased, &amp; Painted Prop, Replaced bracket on Rt. Mag Condenser, Complied with AD Note 69-24-2 (on Magns), Repaired starter, Free Prop Contol up, Replaced oil Press pipe, Compression check with a Leak by Percentage tester as follows #1 cyl. (15%), #2 cyl. (10%), #3 cyl. (20%), #4 cyl. (20%), #5 cyl. (25%), #6 cyl. (10%). Inspection</p> <p>I certify that this Engine has been inspected in accordance with a Periodic inspection and was determined to be in air worthy condition. AIRFRAME Rating Class 1 &amp; 3</p> <p>CUMMINGS &amp; GROVES AVIATION INC. F. A. A. REPAIR STATION 4445</p>		
<p>CARRY TOTALS FORWARD TO TOP OF NEXT PAGE</p>										<p>Inspector <u>Thomas G Young</u></p> <p>Previous Time <u>105.2 hrs</u></p> <p>Total Time <u>822.2 hrs</u></p>	





DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
			Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
	Hrs.	Min.									
2068.8									April 29-63 100 hrs in op the date and removed replaced O Rings in oil seal overhaul major overhaul in top oil changed oil cleaned screens at opening checked for oil leaks nothing checked OK H.D. McElwaine AP 12607		
2091.8 (Engine Hv. Motor)									Changed oil & cleaned Sept. 17, 1963 screens AP 1546797	C.W. O'Brien	
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DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CEI NO
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
19 64											
5-9									Recording Tach Read 26 hrs Total Time since new 107 Time on Engine since Overhaul 691.8 hours 100 hr Insp completed this date. Change oil clean all screens. Differential Compression check shows # 1 95 # 2 94 # 3 94 # 4 85 # 5 94 # 6 93 1 100 2 100 3 100 4 100 5 100 6 100 Service Battery & Recharge, Replace Brushes in Generator. Replace Push Rod Housing Seals on # 1, 2, 3, 4 exhaust and # 1 intake.		
I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR INSPECTION AND WAS DE- TERMINED TO BE IN AN AIRCRAFT CONDITION TOTAL TIME 1,071.8 HRS DATE 5-9-64 FORD A. PHILLIPS A. P. 14888 M. <u>Ford A. Phillips</u>											

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DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
1965	Hrs.	Min.									
9-29									Recording Clock Shows 295 Hours. 100 Hr Inspection Completed this Date. Engine Removed and Major Over Haul Completed this Date. Cylinder Rebores .015, All Steel Parts Magnaflux Inspected By Magnaflux Corp. Replace All Ex Values, 3 Exhaust Guides, All Pistons, Rings, Seats, Gaskets, And Hoses. Overhaul Generator.		
									I CERTIFY THAT THIS <u>Engine</u> HAS <u>Zero Time</u> BEEN INSPECTED IN ACCORDANCE WITH <u>100 Hr</u> INSPECTION AND WAS DE- <u>S.M.O.H.</u> TERMINED TO BE IN AN AIRWORTHY CONDITION TOTAL TIME <u>11058</u> DATE <u>9-29-65</u> FRED B. PHILLIPS A. E. 1410123 IA <u>Fred B. Phillips</u>		
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DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
			Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
1967	Hrs.	Min.									
3-16									Tack Time 50 Hours. 100 Hour Inspection Completed This Date. Change Oil And Clean All Screens. Clean Gap And Test All Spark Plugs. A/C Records Show Hartzell Prop Modified By <u>W. Walker</u> To C/W A.D. Note		
<p>I CERTIFY THAT THIS <u>Engine HAS</u>          BEEN INSPECTED IN ACCORDANCE WITH  <u>Airframe</u> INSPECTION AND WAS DE-          TERMINED TO BE IN AN AIRWORTHY CONDITION          TOTAL TIME <u>155 1/2</u> DATE <u>3-16-67</u>          FRED B. PHILLIPS A. P. 1410122 LA  <u>Fred B. Phillips</u></p>											
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DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
1968	Hrs.	Min.									
4-11									Track Time 136 Hours 100 Hour Inspection Completed This Date. Change Oil And Clean All Screens. Clean, Gap, and Test Spark Plugs. Install New Throttle Switch for Gear Warning Horn. Engine was 136 Hours SMOH		
<p>I CERTIFY THAT THIS <u>Engine</u> HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>100 Hour</u> INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION</p> <p>TOTAL TIME <u>241 Hours</u> DATE <u>4-11-68</u></p> <p>FRED B. PHILLIPS A. P. 1410122 IA</p> <p><u>Fred B. Phillips</u></p>											
5-30-68									Track Time 142 Hours Change Oil And Clean All Screens. Clean Engine And Check For Oil Leaks. Fred B. Phillips		
<p>A9P1410122 IA</p>											
CARRY TOTALS FORWARD TO TOP OF NEXT PAGE											

DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
1969											
<p>6-20 Tack Time 215 Hours; Total Time 1320 Hours:  100 Hour Inspection Completed  This Date. Change Oil &amp; Check Screens,  Claw, Gap, And Test Spark Plugs.  Flush Out Oil Separator. Check  Magns and Electric System. Check  All Controls &amp; Lubricants.</p>											
<p>I CERTIFY THAT THIS <u>Engine</u> HAS  BEEN INSPECTED IN ACCORDANCE WITH  <u>100 Hour</u> INSPECTION AND WAS DE-  TERMINED TO BE IN AN AIRWORTHY CONDITION  TOTAL TIME <u>1320 Hours</u> DATE <u>6-2-69</u>  FRED B. PHILLIPS A. P. 1410122 IA  <u>Fred B. Phillips</u></p>											
<p>CARRY TOTALS  FORWARD TO TOP  OF NEXT PAGE</p>											

DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
1970											
8-13									Tack Time 242 Hours. 100 Hour Inspection Completed This Date. Change Oil And Check Screens. Run Diagnostics! Compression Test. Check Magns & Timing. Clean Oil Separator. Check All Controls for Proper Operation.		
<p>I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH <del>AN</del> INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION</p> <p>TOTAL TIME <u>1347 Hrs</u> DATE <u>8-13-70</u></p> <p>FRED B. PHILLIPS A. P. 1410123 IA</p> <p><i>Fred B. Phillips</i></p>											
1-30-71									Tack Time 261.27 hours; Change Oil And Clean Screens. Fred B. Phillips A/P 14101227H		
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DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
1971	Hrs.	Min.									
8-2 Tack Time 271 Hours: Change Oil And Check Screen. Carb. Calibrated Valve Set By Hot Shop Adjustment. Fred B. Kelly - DP 1410/22 TH											
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DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
19 <del>72</del>	Hrs.	Min.									
1-10-									<p>TACK Time 285 Hours: Total Time 1390 Hours:  100 Hour Inspection Completed This  Date Change Oil And Check Screens.  Remove All Cylinders And Overhaul.  Install New #.015 Rings. Use Same Pistons  And Valves. Replace All Hoses And Seals.  Overhaul Both Magns. Replace Coil, Points, Cond  Brush, Seal, and Bearing C/W A.D. On Prop Bearing  And Shot Penned Blade Shank. Installed New  Perrin Ignition Harness.</p> <p>ENGINE WAS TESTED <u>Engine</u>  AND INSPECTED IN ACCORDANCE WITH  <u>100 Hour</u> REQUIREMENT AND WAS  DETERMINED TO BE IN AN AIRWORTHY CONDITION  TOTAL TIME <u>1390 HOURS</u> DATE <u>1-10-78</u>  FRED B. PHILLIPS &amp; S. 100000  <u>Fred B. Phillips</u></p>		
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DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
			Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
6-1 1972	Hrs.	Min.									
Tack Time 308 Hours: Change Oil And Check Screens											
Use Enco E-100 Fuel B Phillip											
AP 1410122 JA											
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DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
1973											
	Tach	359							<p>5 JUNE 1973, Replaced Piston  of King's RE Seals Valves &amp; Seats  #1 Cyl 6 +.015 OS.  TT 2559  WJ Kelly  1A1274363</p>		
					90%		90%		96%		88%
	20 Sep	73							<p>Compression check completed  #1 72/80 #2 72/80 #3 69/80 #4 70/80 #5 71/80 #6 68/80  Tach Time 379.75  Kenneth H. Smith  1A1613231 JA</p>		
	13 Oct	73							<p>Tach Time 392.52  Charged O.I., cleaned screen  M. J. Illegni</p>		
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DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME	
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.

19 Hrs. Min.

REPAIRS - ADJUSTMENTS  
ALTERATIONS  
INSPECTIONS - REMARKS

clean and only spent plugs. Change  
engine oil. Clean oil & fuel screens.  
Replace exhaust flange gaskets on #2 & 4  
Cyl. Check timing. Compressor oil. Check all cyl.

1601.78A

I certify that this aircraft/engine has been  
inspected in accordance with a 100  
inspection and was determined to be in Air-  
worthy condition this date 4-22-79  
Recording Tach. Time 496.7

*Nelson L. Myers*  
Nelson L. Myers A&P 881261

Tach 496.7 hours

Date April 22, 1979

I certify that this engine has been inspected in accordance with a Annual inspection and was determined to be in airworthy condition.

*James L. Hodge*  
James L. Hodge, IA AP. 1706509

SIGNATURE

CERT. NO.

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DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
19											
1-14-75									<p>Task 548.8  Removed #5 cylinder due to low compression.  Sent cylinder to T W SMITH ENGINE CO. for  repairs as necessary. Both valve guides  were reamed for more clearance. Valves  checked for seating. See TW WO# 094.  Cylinder reinstalled with new seals +  gaskets. Test run engine satisfactory.</p>		
									<p><i>[Signature]</i>  1625642</p>		
									<p>Service  WO# 1-8-75</p>		

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TACH 585.8 @ Purchase

600.95 am LAS

DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
19											
<p><i>May 9, 1975</i> DATE <del>5/9/75</del> <i>5/19/75</i> TOTAL TIME <del>2762.69</del> <i>2762.69</i> TACH TIME <del>582.72</del> <i>582.72</i> (75MO 11/19)</p> <p>I CERTIFY THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH A <u>Annual</u> INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION</p> <p><i>James G. Naylor</i>  <b>JAMES G. NAYLOR A&amp;P 1688843</b></p>											
	546.53		SHOWING ON TACH						@ MOH		(HOBBS-850:00)
	003.71		Charged oil						9 qts 40 wt non detergent	Skell	HOBBS 911:16
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DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CER NC
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
19 77	Hrs.	Min.							Tach 912.89		
6-21-77									<p>I CERTIFY THAT THIS ENGINE  HAS BEEN INSPECTED IN ACCORDANCE  WITH AN ANNUAL INSPECTION AND  WAS DETERMINED TO BE IN AN  AIRWORTHY CONDITION. Drew Peterson  INSTALLED E.G.T. AWP 530583390</p> <p>AIR/OIL SEPARATER REPLACED,  REPLACED EXHAUST GASKETS LEFT  SIDE OF ENGINE,  REPLACED GENERATOR FLEX HOSE  SPARK PLUGS CLEANED  MAGS LUBRICATED</p>		
CARRY TOTALS FORWARD TO TOP OF NEXT PAGE									Drew Peterson AWP 530583390		







DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
19											
	<p>Standard 100 hour inspection Performed for Annual          All Routine items and change Greases Plug Wags          timing adjustments Controls See attached 100 hour          inspection form</p>										
	Date		7/1/78		<p>This Aircraft Engine Released from          Maintenance</p>						
	I certify that this		aircraft engine		has been inspected in		<p>Engine Released for Return          to Service</p>				
	accordance with		<del>47100</del>		100 hour <input type="checkbox"/>		<p>7/1/78 Jack D Lorenz</p>				
	inspection and		determined to be		in airworthy		<p>condition.</p>				
	Sig		Jack D Lorenz		94358-41		<p>94358-41</p>				
	Recording Meter		838.39		<p>Time in service _____</p>						
CARRY TOTALS FORWARD TO TOP OF NEXT PAGE			<p>JACK D. LORENZ          2511 McCARRAN STREET          NO. LAS VEGAS, NEVADA</p>								



DATE 4/11/19	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
									<p>During Engine check found 5 cylinders with low compression all pistons were removed for inspection found CRACKED VALVE SEATS - BURNED VALVES ECT BAD GUIDES - ECT, THE ENGINE WAS COMPLETELY TORN DOWN AS A PRECAUTIONARY MAINTENANCE FUNCTION ALL STEEL PARTS MAGNA FLUXED AND OK AND WITHIN TOLERANCES AS PER MFG OHAUL MAINTENANCE PROCEDURES AS STANDARD TOLERANCES CASE AND ALUMINUM PARTS 24910 AND DYE CHECKS PERFORMED - FOUND ALL PARTS WITHIN TOLERANCES ALL ACCESSORIES WERE DESIGNATED TO VARIOUS OTHER AGENCIES WITH REPAIR STATION STATUS - ALL ITEMS YELLOW TAGGED AND CONTAINED IN SEPARATE FOLDER FOR RECORD MATTER</p>		
CARRY TOTALS FORWARD TO TOP OF NEXT PAGE											

DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.					
19	Hrs.	Min.									
<p>The following yellow tag parts or new continental motors parts used</p> <p>Cylinders were furnished with standard pistons pins - rings and valves guides ect</p> <p>Valves lapped and leak checked, new springs keepers - used on all valves</p> <p>Crank main bearings used new standard rods checked for alignment - balance now bearings</p> <p>crankshaft magna used and returned to service</p> <p>all new caslots - pins - keys all engine parts replaced were new or overhauled by repair shop</p> <p>engine assembled per mfg overhaul manual</p> <p>new engine mount. discs replaced mag overhauled</p> <p>and timed new harness used. engine installed in air frame secured. pre oiled and ground run checked 100 hr</p> <p>check sheet for accessory overhaul yellow tags</p>											
CARRY TOTALS FORWARD TO TOP OF NEXT PAGE											









DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
19	Hrs.	Min.									
									100 Hr / Annual Inspection compression ① 70 ② 73 ③ 70 ④ 74 ⑤ 76 ⑥ 71/80 oil drained Temp sender ok starter ok, gear ok, 2 lines replaced carb all controls ok for security prog ok, Air cleaner replaced plugs serviced mag's ok, all services per continental manual see 100/hr ok sheet back of log		
										J. J. P... A & P 530321041	
CARRY TOTALS FORWARD TO TOP OF NEXT PAGE											

L.F. LORENZ  
A & P 530321041

DATE	RUNNING TIME	TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
		Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
7/1/83								TRACT 1190.99		
19	Hrs. Min.							Started 180 hr check		
I certify that time		has been		with an				Inspected for annual		
inspected in at		Engine		position				Referred for annual		
annual of 100				worthy				All services were		
and determined								ROUTINE and flushed		
condition.								with CMC - checks		
Signature		94358-41						full 100 hrs check sheet		
Receipt		1190.99						Back of A/C log		
J. LORENZ								This engine ready clear		
2511 McCAHILLAN STREET								& F/C OK		
NO. LAS VEGAS, NEVADA								Released from maintenance		
842-7200								approved for Release		
A & E JACK D. LORENZ								Jack D. Lorenz		
94358-41 IA								A & E		
No Year A/D S								94358-41		
on A/C as								IA		
Engine										
CARRY TOTALS										
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OF NEXT PAGE										

7/1/83

TRACT 1190.99

Started 180 hr check  
 Referred for annual  
 All services were  
 ROUTINE and flushed  
 with CMC - checks  
 full 100 hrs check sheet  
 Back of A/C log  
 This engine ready clear  
 & F/C OK  
 Released from maintenance  
 approved for Release  
 Jack D. Lorenz

Signature  
 Receipt

J. LORENZ  
 2511 McCAHILLAN STREET  
 NO. LAS VEGAS, NEVADA  
 842-7200

A & E JACK D. LORENZ  
 94358-41 IA

No Year A/D S  
 on A/C as  
 Engine

CARRY TOTALS  
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A & E JACK D. LORENZ  
 94358-41 IA  
 IA



DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME		REPAIRS - ADJUSTMENTS ALTERATIONS INSPECTIONS - REMARKS	SIGNATURE	CERT. NO.
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.			
9											
5/20/85									100 Hr annual Turboprop compression @ 69 @ 74 @ 77 @ 72 @ 68 @ 70/80 oil change oil was oil screen ok no metal, large amt carbon pit cleaned replace oil ring oil used spray oil starter & fuel ok. Fuel - screens ok. New rocker box gaskets 13 & 5 cyl Heat exchangers ok pump serviced all servicing per continental & Navion manual see 100 Hr ok 5 Heat exch A/C ok		
										<i>L. Lorenz</i>	53532104

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FORWARD TO TOP  
OF NEXT PAGE

LF. LORENZ  
A&P 530321041  
LAS VEGAS, NEVADA  
361-2274



10-1-86

HOBBS 132.8

TACT# 1227.25  
REPAIRS - ADJUSTMENTS  
ALTERATIONS  
INSPECTIONS - REMARKS

DATE	RUNNING TIME		TIME SINCE MAJOR		TIME SINCE TOP OVERHAUL		TOTAL TIME	
	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.	Hrs.	Min.
10/1/86								
19								

SIGNATURE  
CERT. NO.

Date 9/21/86

I certify that this aircraft has been inspected in accordance with an annual  100 and determined to be in satisfactory condition.

Signature: Jack H. Boreny 94358-41

FOR SERVICE

LENZ  
STREET  
NEVADA  
842-7289

Standard Check Performed for ANNUAL, oil systems Routine inspection & checks as listed in the CMC Manual Engine FAR'S Checked & PART 43 researched & Recorded Book of A/C Log NO NEW APS Engine Run up OK all systems FKS OK

This Engine released from maintenance this engine approved for Return to service

CARRY TOTALS FORWARD TO TOP OF NEXT PAGE

FAE IA

Jack H Boreny  
94358-4111

