

ENSTROM HELICOPTER ENGINE LOG

Owner Aero Air, Inc.

Registration Number N51769

Model Number F-28C

Serial Number 443

Date	Nature of flight	Time in air		Inspection and maintenance remarks	Signature and license number
		Hrs.	Min.		
	Prod.			Production Flight Test. <i>Frank A. Schult</i>	
24 Nov 78	Prod.	6	0	Lycoming engine H10-360-EIAD S/N L-19249-51A	371 44 0923
				installed in Enstrom F-28C, S/N 443, date	
				8/21/78.	
				<i>Clinton J. Vanderlinden</i>	
				Clinton J. Vanderlinden, Chief Insp.	
23 Sept 78		42	1	Drained oil, drained oil cooler installed new oil filter (Champion CH45103). Added 9 qt Aeroshell 40 ^{mineral}	
				Cleaned Fuel sump & Finger screen, 60 hr inspection performed and engine found airworthy. AD's through 78-17-07 checked and complied with.	
				<i>Flew without 515506010 AD's</i>	
Total forward					
Total to date					

AVCO LYCOMING WILLIAMSPORT DIVISION
AVCO CORPORATION
WILLIAMSPORT, PENNSYLVANIA 17701

ENGINE SERIAL NUMBER L-19249-51A

IN SERVICE DATE 9-25-78

DETACH AND RETAIN THIS PORTION FOR YOUR RECORD

ENSTROM HELICOPTER ENGINE LOG

Owner Elton Enterprises Inc.

Model Number F-286

Registration Number N51769

Serial Number 443/L-19249-51A

Date	Nature of flight	Time in air		Inspection and maintenance remarks	Signature and license number
		Hrs.	Min.		
Dec 16, 78	Totals time	75.7		Hobbs same, changed oil newshell 40 wt. replaced oil Filter, stop drilled cracks in Engine baffles and applied silicone in stress areas. Zeland W. Swanson ATP 1901863 (in)	
Nov 13, 79	Hobbs	104.7		TTL same, changed oil newshell 50 wt, changed oil Filter, cleaned screens fuel air, oil. I certify that I/ATW Enstrom work sheet Form # E-171-A that this Engine has been inspected I/ATW annual requirements and was determined to be in airworthy condition. Zeland W. Swanson ATP 1901863	
Total forward					
Total to date					

Form No. F-160

ENSTROM HELICOPTER ENGINE LOG

Owner Elton Enterprises Inc.
 Registration Number N51769

Model Number F-28C
 Serial Number 44316-19249-51A

Date	Nature of flight	Time in air		Inspection and maintenance remarks	Signature and license number
		Hrs.	Min.		
18 May 79	Hobbs time 136.3 TTH Same - 25 hr. drop reg complete				
	I/A/W Enstrom Form No F-171-A Leland W Swanson AYP 1901863 IA				
18 Jan 79	Hobbs time 188.3 TTH Same - 50 hr. drop comp - changed oil aeroshell 50W/T				
	cleaned air & fuel screens, changed oil filter, Leland W Swanson AYP 1901863 IA				
18 Feb 79	Hobbs time 224.2 TTH Same. C/W live MD 0090, changed oil filter & oil				
	aeroshell 50W/T, cleaned & greased plugs. I certify that I/A/W Enstrom work sheet				
	Form # F-171-A that this engine has been inspected I/A/W annual				
	requirements and has been determined to be in airworthy condition.				
	Leland W Swanson AYP 1901863 IA				
23 Aug 79	Hobbs time 260.6 TTH Same 25 hr drop reg. I/A/W Form F-171-A				
	comp Leland W Swanson AYP 1901863				
Total forward					
Total to date					

Form No. F-160

ENSTROM HELICOPTER ENGINE LOG

Owner Elton Inc.

Model Number F-28C

Registration Number N51764

Serial Number 443/L-19249-51A

Date	Nature of flight	Time in air		Inspection and maintenance remarks	Signature and license number
		Hrs.	Min.		
15 Sep 79	Hobbs	255.6	TTL done	50 hr done IAW Enstrom Form # F-171A changed oil & Filter Aeroshell 100 50 wt cleaned oil, air & fuel screens. Signed Elton Inc. APR 14 1983	
8 Dec 79	Hobbs	322.0	TTL done	100 hr done IAW Enstrom Form # F-171A changed oil & Filter Aeroshell 40 wt, cleaned oil, air & fuel screens, checked reading compression ck #1-93, #2-100, #3-110, #4-98 replaced spark plugs w/ new I certify that this Engine has been done IAW annual requirements and was determined to be in airworthy condition. Signed Elton Inc. APR 18 1983	
21 Feb 80	Hobbs	349.1	25 HR INSPECTION C/W	I/A/W ENSTROM FORM CHANGED OIL & FILTER AEROSHELL 40 WT INSPECTION ENG OIL SCREEN APR 24 1980 257 John K. Quinn	
Total forward					
Total to date					

Form No. F-160

ENSTROM HELICOPTER ENGINE LOG

Owner _____

Model Number H10-360-E1A0

Registration Number N51769

Serial Number L-19249-S1A

Date	Nature of flight	Time in air		Inspection and maintenance remarks	Signature and license number
		Hrs.	Min.		
8-28-01				DRAINED OIL, REMOVED AND INSPECTED	
HOBBS	1086.5			FILTER. SERVICED WITH 9 QT. AEROSHELL	
				15W/50 AND FILTER CH48103.	
				Chas J. Z. Ohm AP426089831IA	
Total forward					
Total to date					

Form No. F-160

ENSTROM HELICOPTER ENGINE LOG

Owner Elton dwe

Registration Number N 51769

Model Number F-28C

Serial Number 443/L-19249-51A

Date	Nature of flight	Time in air		Inspection and maintenance remarks	Signature and license number
		Hrs.	Min.		
7 Nov 81	Hobbs	350.1		TTL time same 100 hr drop I/A/W Enstrom Form # 171A 171A, cleaned air & fuel screens direct reading compression CK #1-124, #2-120, #3-125, #4-118, C/W Bendix A/D 80-17-14 amendment 39-3886 aug 21, 1980 Bendix Service Bulletin 605A - by insp for coil retaining device Bendix P/N 10-382939- P/C/W installed mag seal bit & identified mag I/A/W Section 4 & 5 magneto Ser # 20932, I certify this Engine has been drop I/A/W annual requirements and was determined to be in airworthy condition. Leland W Swanson ATP 1901863	
30 Nov 81	Hobbs	365.10		replaced Starter Leland W Swanson ATP 1901863	
3 Dec 82	Hobbs	379.5		TTL time same 25 hr drop comp I/A/W Enstrom Form F-171-A Leland W Swanson ATP 1901863 DA	
Total forward					
Total to date					

Form No. F-160

ENSTROM HELICOPTER ENGINE LOG

Owner Elton Inc.
 Registration Number N51769

Model Number F-28C
 Serial Number 443/L-19249-51A

Date	Nature of flight	Time in air		Inspection and maintenance remarks	Signature and license number
		Hrs.	Min.		
9 Jun 81	Hobbs	388.0		repl starter model M2 4222 Ser# 9L000432, replaced ring gear - Leland W. Duane ATP 1901863	
24 Jul 82	Hobbs	402.5		400hr inspection done, req comp, repl starter	
		56		hr req C/W Leland W. Duane ATP 1901863 IA	
30 Oct 82	Hobbs	439.8		TTL same, 25 hr req comp DIA/W Enstrom From F-171-A, repl starter Bendix Leland W. Duane ATP 1901863 IA	
30 Oct 82				Ring gear repl by Spanish Fork Flying Inc Leland W. Duane ATP 1901863 IA	
Jan 7 1983		440.3		Installed oil pump gears TAW Lycoming overhaul material in removed accessory housing ATP 509905060	
				W. Duane	
Total forward					
Total to date					

Form No. F-160

ENSTROM HELICOPTER ENGINE LOG

Owner Elton Inc

Registration Number N51769

Model Number F-28C

Serial Number 443/L-19249-517A

Date	Nature of flight	Time in air		Inspection and maintenance remarks	Signature and license number
		Hrs.	Min.		
10 Mar 83	Hobbs time 440.3 TTH Same, C/W Lycoming AD 81-1804 R2 AD 39-4395 by replacing oil pump impellers, accessory case and oil pump reassembled using new gaskets, Bendix magneto model D4LN 2021 Ser # 20932 AD's C/W by a bcy Hawk Avn, see AD compliance record, Magneto reinstalled and timed to 20°, changed oil aeroshell 40W changed oil filter, cleaned air & fuel screens, compression ck #1- 77/80, #2- 78/80, #3- 78/80, #4 78/80, C/W Svc into letter 0111 by wiring left magneto to fire all top plugs step #3, replaced starter Bendix, drive shaft, drive gear and ring gear clearance checked to .018, see aircraft log for test flight requirements engine drop I/P/W Enstrom Form No. F-121A, 100hr requirements, I certify that on 10 Mar 83 at 440.3 total time engine hours I have inspected this engine I/P/W an annual drop and have determined it to be in airworthy condition. Leberd W. Swanson AWP 1901863 EA				
Total forward					
Total to date					

Form No. F-160

ENSTROM HELICOPTER ENGINE LOG

Owner Elton duc

Model Number F-28C

Registration Number N51769

Serial Number 443/L-19249-51A

Date	Nature of flight	Time in air		Inspection and maintenance remarks	Signature and license number
		Hrs.	Min.		
10 Jul 83		444.5		rebuilt starter drive, replaced shaft, reduction gear and Bendix, Leland W. Swanson AWP 1901863	
2 Sep 83		450.9		replaced starter assembly with airborne P/N 2041, MFL P/N MZ422R Ser# 3070667 ring gear repl by Spanish Forb Flying service, clearance checked to .027 Leland W. Swanson AWP 1901863 FA	
25 Sep 83		470.0		replaced starter assembly with airborne P/N 2041, MFL P/N MZ422R Ser# 3080651 Leland W. Swanson AWP 1901863 FA	
9 Jul 84	Hobbs time 443.5 TTH done Eng Insp I/A/W Enstrom Form 20.			F-171-A, I will be that on the above date and time I inspected this engine. I/AW a annual Insp and have found it to be in a airworthy condition and fit for return to service Leland W. Swanson AWP 1901863 FA	
Total forward					
Total to date					

Form No. F-160

ENSTROM HELICOPTER ENGINE LOG

Owner ELTON INC

Model Number F-28-C

Registration Number N51769

Serial Number 443

Date	Nature of flight	Time in air		Inspection and maintenance remarks	Signature and license number
		Hrs.	Min.		
6/8/90	HOBBS	527.8	T.T. 527.8		
I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN A ANNUAL INSP AND WAS RETURNED TO SERVICE AT THIS DATE & TIME. CHANGED OIL & FILTER W/SHELL 50WT OIL 9W AD 78-09-07 R3 11/7/83 by INSP DUE FA 500 hrs Next Due at HOBBS 1027.8. TIMED MAG TO ENGINE. CLEANED, GAPPED ROTATED SPARK PLUGS. -END- <i>Wm. [Signature]</i> AP5289050601A					
2-27-96	Hobb.	531.8	TT 531.8	Remove Lensing For Repair	<i>[Signature]</i> 45552776
Total forward					
Total to date					

Form No. F-160

ENSTROM HELICOPTER ENGINE LOG

Owner _____

Model Number _____

Registration Number _____

Serial Number _____

Date	Nature of flight	Time in air		Inspection and maintenance remarks	Signature and license number
		Hrs.	Min.		
		531.8		THE AIRCRAFT ENGINE OR ACCESSORIES OR APPLI- ANCE IDENTIFIED ABOVE WAS: E OVERHAULED D INSPECTED AND REPAIRED AS NEEDED (I RAN) B TESTED IN ACCORDANCE WITH CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIRS ARE ON FILE AT THIS REPAIR STATION UNDER ORDER. W.O. 18017 DATE 5-9-96 SIGNED <u>W Gary Voopl</u> FOR SEA AIR INC. Certificate #EP5R839M Box 190031 Anchorage, Alaska 99519	
Total forward				All applicable AD notes and service bulletins complied with at this overhaul. Engine test ran for 3 hours. Oil screen checked O.K.	
Total to date					

Form No. F-160,

ENSTROM HELICOPTER ENGINE LOG

Owner _____

Registration Number N51769

Model Number E-280

Serial Number 443

Date	Nature of flight	Time in air		Inspection and maintenance remarks	Signature and license number
		Hrs.	Min.		
11-11-96		531.1	1	INSTALLED O.H. 0.00 S.M.H. ENG. MOD. H10.360E1AD S.N. L19249-51A. SEA AIR W.D. # 18017, INSTALLED ENG. SHROUD BAFFELS, ALL ACCESSORIES, FAN DRIVE PULLEY BELT ETC. ALL PRESSURES AND VOLTAGE SET. ENG. RUN ALL SYSTEMS CHECKED OK. 100 HR INSP. C/W PER ENSTROM MAINT. MANUAL, <u>Doug Black</u> A&P 15553A (OVER)	
11-11-96	Total forward	531.1		INSTALLED RAY JAY TURBO P.N. 600700-00 0.00 T.S.O. S.N. 212132 INSTALLED WITH ENG. S.N. L19249 AT TIME OF ENG. INSTALLATION <u>N. Black</u> A&P 15553A	
	Total to date				

Date 11-11-96 T. 531.1 Tach Time 00.0 S.M.H.
I certify that this aircraft has been inspected
with an ANNUAL inspection and was
determined to be in airworthy condition.

ROBERT J. ZARKOVICH A&P 18062261A

Tachometer 570.1 Total Time 570.1
I certify that
this (aircraft) (engine) has been inspected in accordance
with a (annual) (100 hour) inspection and was
determined to be in airworthy condition.
Dated 11/20/98 97-16
Signed [Signature] A&P 539541432A

ENSTROM HELICOPTER ENGINE LOG

Registration Number 51769

Aircraft Serial 443

MODEL F28C

Engine Model HIO360 E1AD

Serial Number L-19249-51A

DATE	AIRCRAFT TIME	TACH TIME	ENGINE TOTAL	ENGINE T.S.O.H.
11/20/1998	570.1	570.1	570.1	39.0

100 HOUR ANNUAL INSPECTION COMPLETED THIS DATE. OIL AND FILTER CHANGED. SUCTION SCREEN CLEANED. COMPRESSION CHECKED AS FOLLOWS: 1-77 2-78 3-75 4-77. PLUGS CLEANED AND GAPPED. MAG CONTACT FELTS LUBED. E GAP AND BASIC TIMMING SET. SEE REPORTS SECTION THIS VOLUME FOR AD COMPLIANCE STATUS AND LISTING. ENGINE TEST RUN AND RETURNED TO SERVICE. THIS ENGINE DETERMINED TO BE IN AIRWORTHY CONDITION AT THIS TIME.

SIGNATURE _____

IA539541453A&P

GENERAL AIRCRAFT SERVICES, LLC 5101 NW A AVE PENDLETON OR 97801 541 276 3554

100 HR. DUE 670.1

50 HR. DUE 620.1

Enstrom Factory Service Center

ANNUAL DUE 12/01/1999

PERIODIC DUE

ENSTROM HELICOPTER ENGINE LOG

Registration Number 51769

Aircraft Serial 443

MODEL F28C

Engine Model HIO360 E1AD

Serial Number L-19249-51A

DATE	AIRCRAFT TIME	TACH TIME	ENGINE TOTAL	ENGINE T.S.O.H.
12/01/1998	658.5	658.5	658.5	127.4

100 HOUR ANNUAL INSPECTION COMPLETED THIS DATE IN ACCORDANCE WITH MANUFACTURES CURRENT SPECIFICATIONS. COMPRESSION AS FOLLOWS: 1-75 2-75 3-76 4-72. OIL AND FILTER CHANGED. REMOVED EXHAUST SYSTEM AND REPLACED PORT GASKETS. CRANKSHAFT SEAL REPLACED. LOWER CASE SEAM CLEANED AND SEALED WITH RTV. MAGNETO REMOVED, INTERNAL TIMMING RESET, CONTACTS LUBED, REINSTALLED AND SET BASIC TIMMING 20 DEGREES. ALTERNATOR BELT TENSION RESET. SEE REPORTS SECTION FOR AD COMPLIANCE STATUS AND LISTING. THIS ENGINE DETERMINED TO BE IN AIRWORTHY CONDITION AT THIS TIME. POST INSPECTION TEST RUN COMPLETED AND RETURNED TO SERVICE.

SIGNATURE _____

IA539541453A&P

GENERAL AIRCRAFT SERVICES, LLC 5101 NW A AVE PENDLETON OR 97801 541 276 3554

100 HR. DUE 758.5

50 HR. DUE 708.5

Enstrom Factory Service Center

ANNUAL DUE 01/01/1999

PERIODIC DUE

ENSTROM HELICOPTER ENGINE LOG			
Owner _____	Model Number _____		
Registration Number _____	Serial Number _____		

Model Number _____

Serial Number _____

Date	Nature of flight	Time in air		Inspection and maintenance remarks	Signature and license number
		Hrs.	Min.		
9/22/99		729.2		Engine oil changed Phillips X-C. 20.50 Ws/let	535343702 P. J. [Signature]
Total forward					
Total to date					

Form No. F-160

ENSTROM HELICOPTER ENGINE LOG

Registration Number 51769

Aircraft Serial 443

MODEL F28C

Engine Model HIO360 E1AD

Serial Number L-19249-51A

DATE	AIRCRAFT TIME	TACH TIME	ENGINE TOTAL	ENGINE T.S.O.H.
08/12/1999	698.5	698.5	698.5	167.4

50 HOUR LUBRICATION COMPLETED THIS DATE. OIL AND FILTER CHANGED. REPLACED SCROLL FOAM TAPE. OIL COOLERS CLEANED. ADJUSTED AND REPAIRED FAN SHROUD MOUNTING. ALTERNATOR BELT REPLACED. STARTER REMOVED AND REPAIRED BY INSTALLING NEW BENDIX AND LUBE. STARTER RING GEAR REPLACED ON FLYWHEEL.

SIGNATURE _____

IA539541453A&P

GENERAL AIRCRAFT SERVICES, LLC 5101 NW A AVE PENDLETON OR 97801 541 276 3554

100 HR. DUE 758.5

50 HR. DUE 748.5

Enstrom Factory Service Center

ANNUAL DUE 01/01/2000

PERIODIC DUE

ENSTROM HELICOPTER ENGINE LOG

Registration Number 51769

Aircraft Serial 443

MODEL F28C

Engine Model HIO360 E1AD

Serial Number L-19249-51A

DATE	AIRCRAFT TIME	TACH TIME	ENGINE TOTAL	ENGINE T.S.O.H.
06/11/2000	735.9	735.9	735.9	204.8

100 HOUR ANNUAL INSPECTION COMPLETED THIS DATE. OIL AND FILTER CHANGED. 9 QUARTS PHILLIPS XC 20-50W
INSTALLED. CLEANED OIL SUCTION SCREEN AND SERVO FINGER SCREEN. CLEANED, GAPPED AND TEST SPARK
PLUGS. LUBED MAGNETO CONTACT AND DIST BLOCK FELTS. RESET INTERNAL AND BASIC TIMMING. TRIMMED
TURNING VANE TO INJECTION LINE. COMPRESSION AS FOLLOWS: 1-75 2-77 3-784-77. SEE REPORTS SECTION THIS
VOLUME FOR AD COMPLIANCE STATUS AND LISTING. THIS ENGINE DETERMINED TO BE IN AIRWORTHY CONDITION
AT THIS TIME. POST INSPECTION TEST RUN COMPLETED AND ENGINE RETURNED TO SERVICE.

SIGNATURE _____

TA539541453A&P

GENERAL AIRCRAFT SERVICES, LLC 5101 NW A AVE PENDLETON OR 97801 541 276 3554

100 HR. DUE 835.9

50 HR. DUE 785.9

Enstrom Factory Service Center

ANNUAL DUE 07/01/2001

PERIODIC DUE

ENSTROM HELICOPTER ENGINE LOG

Owner _____

Model Number 1410-360-E1A0

Registration Number 41769

Serial Number L-19249-GA

[illegible]

Form No. F-160

ENSTROM HELICOPTER ENGINE LOG

Owner _____

Model Number H10-360-E1A0

Registration Number N51769

Serial Number L-19249-S1A

Date	Nature of flight	Time in air		Inspection and maintenance remarks	Signature and license number
		Hrs.	Min.		
6-21-01				DRAINED OIL AND INSPECTED FILTER, SERVICED WITH 90+S	
HOBBS	1052.9			HEROSHELL 15W-50. INSPECTED AND CLEANED SUCTION SCREEN	
TSMALL	521.8			AND FUEL FILTERS, INSPECTED, CLEANED AND REGRAPED AUGS —	
THSN	1052.9			CHECKED MAG-TIMING. DRAINED OIL COOLER. COMPRESSION	
				#1/74 #2/75 #3/74 #4/76. LUBED ALL ENT. CONTROLS. COMPLIED WITH	
				AD 82-11-05 BENDIX MAKS, NEXT DUE HOBBS 1552.9, COMPLIED	
				WITH AD 93-02-05 FUEL INJ. LINES, NEXT DUE 1152.9 —	
				COMPLIED WITH AD 98-18-12 TORQUE SCREWS, NEXT DUE 1102.9 OR	
				12-01. AD 2000-18-53 N/A BY OH DATES. "RUN-UP FOR LEAK	
				CHECKS. "I CERTIFY THAT THIS POWER PLANT HAS BEEN INSPECTED	
				IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED	
Total forward				TO BE IN AN AIRWORTHY CONDITION THIS DATE 6-21-01."	
Total to date				— <u>C. V. Z. [Signature]</u> AD 42608583: JOT	

Form No. F-160