

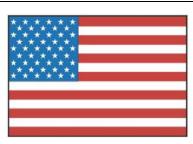
Federal Aviation Administration



ADVISORY CIRCULAR

43-16A

AVIATION MAINTENANCE ALERTS



BY

REAL PROVIDENT



SAFETY IS NURTURED

JUNE 2012

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U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WASHINGTON, DC 20590

AVIATION MAINTENANCE ALERTS

The Aviation Maintenance Alerts provides the aviation community with an economical means to exchange service experiences and to assist the FAA in improving aeronautical product durability, reliability, and safety. We prepare this publication from information operators and maintenance personnel who maintain civil aeronautical products pertaining to significant events or items of interest. At the time we prepared this document, we have not fully evaluated the material. As we identify additional facts such as cause and corrective action, we may publish additional data in subsequent issues of the Alerts. This procedure gives Alerts' readers prompt notice of conditions reported to the FAA Service Difficulty Reporting System (SDRS). We welcome your participation, comments, and suggestions for improvement. Send to: FAA; ATTN: Aviation Data Systems Branch (AFS-620); P.O. Box 25082; Oklahoma City, OK 73125-5029.

(Editor's notes are provided for editorial clarification and enhancement within an article. They will always be recognized as italicized words bordered by parentheses.)

AIRPLANES

Beech: 58; Fuel Cell Sealant Deterioration; ATA 2810

"This aircraft has factory installed, extended range fuel cells," says a mechanic. "The cells are sealed wing bays—or 'wet wing' fuel cells located in each wing tip. These wing tip fuel cells were found leaking fuel through the fuel vent tubes (P/N 60-170010) on both sides. The cause of the leak was found to be the deterioration of the sealant around the tube slip-joint fittings. Also present in the fuel cells was an excessive amount of particulate contamination. This (*debris*) is deteriorated fuel tank sealant that failed to remain bonded to the inner tank surfaces. These particles were trapped in multiple locations throughout the entire fuel storage system with no way of draining, accessing, or even (*detecting*) their presence. The upper wing skin must be removed to access the trouble areas in the wing tip fuel cell—given inadequate inspection panel locations. The addition of a second inspection panel to the aft, inboard area of the wing tip fuel cell may be necessary to (*facilitate detection*) of this discrepancy. (*This is*) a potentially dangerous condition as fuel can enter the wing vent system, or (*these particles*) may cause fuel contamination and (*engine failure*)."

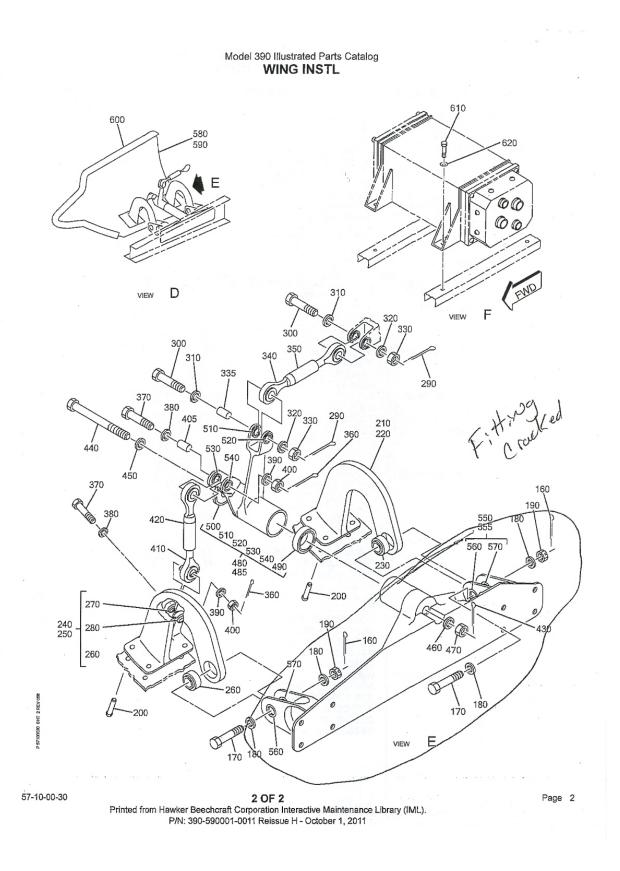




(*This is a fuel cell? It looks more akin to a trash dump! Thank-you for the documentation—Ed.*) Part Total Time: (unknown)

Beech: 390; Cracked Flap-fairing Hinge Fittings; ATA 5744

A repair station technician writes, "During inspection of the wing flap actuator attachments, (*I*) found both the L/H and R/H wing inboard flap-fairing hinge fittings cracked (*P/N's 390-110440-0001 and 390-110440-0002*)."





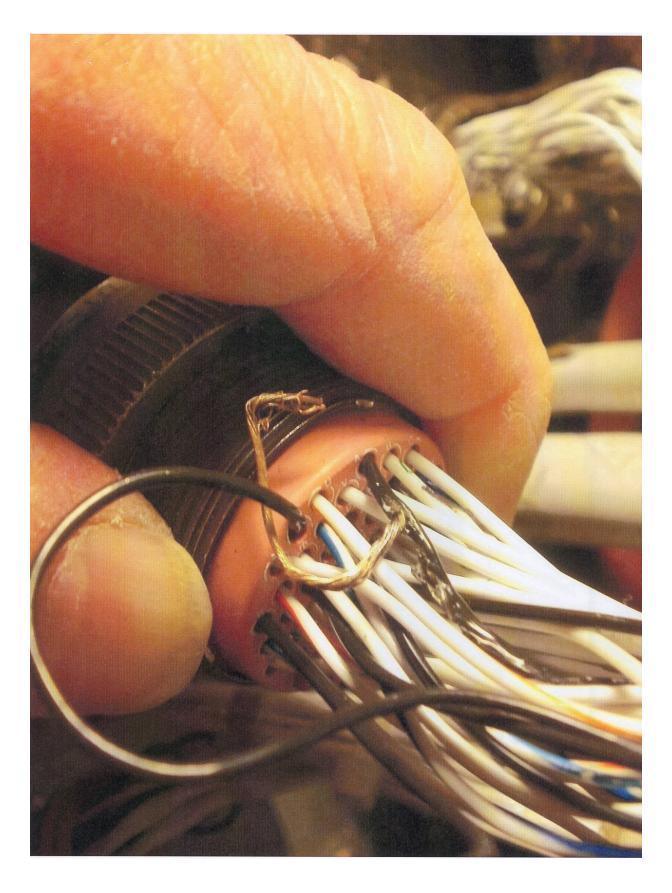
Part Total Time: 980.0 hours

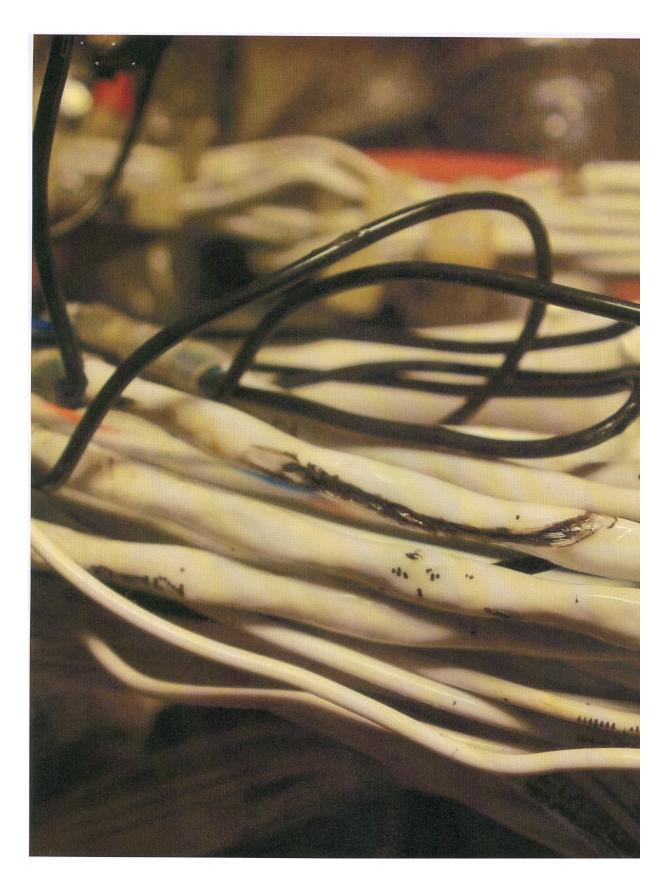
Beech: Burned Engine Indicator Electrical Wires; ATA 7797

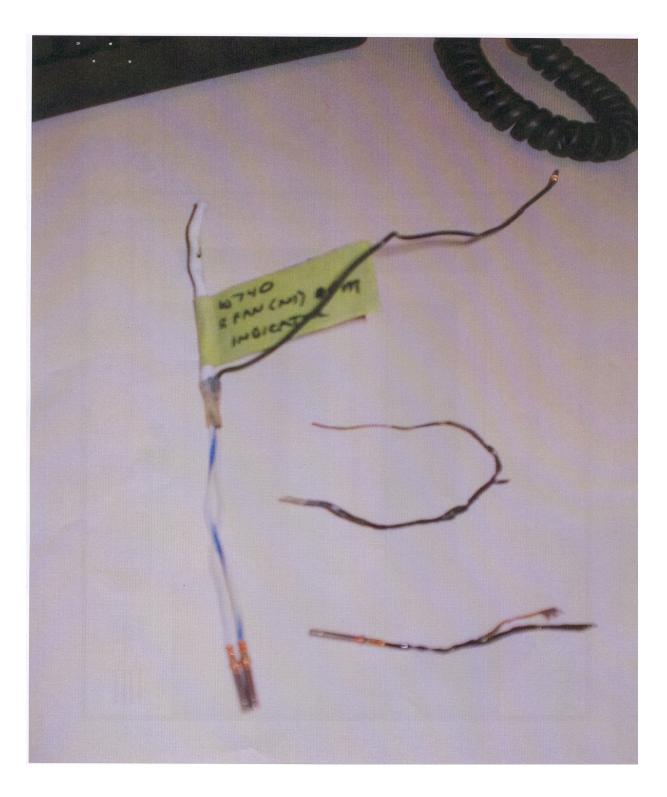
"A 'D' check inspection of the wiring in the aft baggage compartment (R/H, lower area) found some burned wires," says this repair station technician. "These wires had shorted out—burning through their insulation. (*Noted strands include*) W740 R/H Fan N1 RPM Indicator, and W748 R/H Turbine N2 Indicator.

"This (*area/wiring*) needs to be inspected thoroughly as (*failed wiring*) will cause indication problems in the cockpit and possibly a fire. The damaged wires were replaced."









(What caused the shorts? Chaffing? Poor connections? Impact damage? Now I have no idea "Who Done it"— Ed.)

Part Total Time: (unknown)

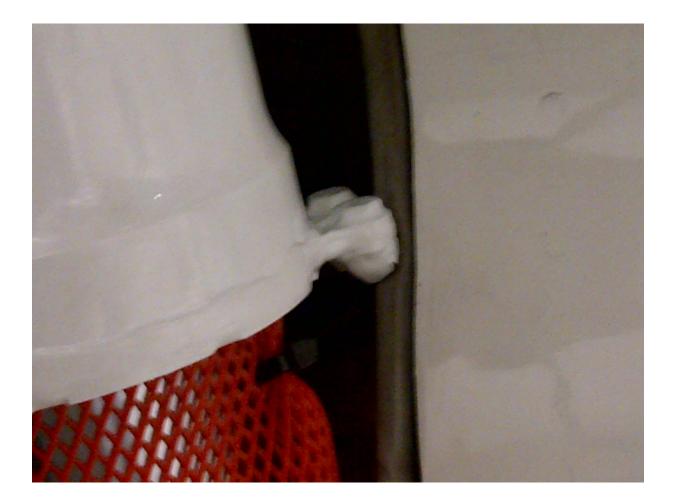
Bombardier: CL600-2B19; Incorrect MLG Installation; ATA (N/A)

(Reminder to readers: Alerts' submissions often include admonitions, other agency publications, and "operator error" descriptions. If a part has not actually failed, it doesn't wind up in the SDRS database; hence, no ATA code is assigned. There are three such submissions in this month's edition—Ed.)

A technician for a repair station provides the following report of an assembly error and confusing assembly data. "During clearance checks (*I found*) the locking ring of the (*main landing gear*) shock strut assembly incorrectly clocked. (*This caused*) fouling of the aircraft structure and the failure potential for the L/H main gear extension.

"The CMM (*maintenance manual*) fails to note the 'dogged locking ring' requires installation in a specific direction to maintain airframe clearance. (*Reference the following*) steps in CMM 6100, section 32-10-05: '(14) Apply sealing and coating compound listed in paragraph 3 to both faces of dogged locking ring (6239-1); (15) Install the dogged locking ring on the gland nut (6228-1). Install the gland nut on the flange of the cylinder S/A (6217-1) using gland nut wrench CAT (4948-6C). Ensure the dogged locking ring is correctly centered on the gland nut. Torque gland nut to 22.60-45.20 NM. Note: back off to nearest lock position only when necessary. (16) Engage the tab of the locking segment (6233-1) with a slot in the gland nut. Secure the locking segment to the dogged locking ring with 2 bolts (AN4-5), 2 washers (AN960-416L), and two nuts (MS17826-4). Torque nuts to 5.65-7.91 NM. Safety the nuts with cotter pins (MS24665-151).'

"The data fails to state the dogged locking ring may be installed in either the 0500 or 1100 (*o'clock*) positions relative on the assembly. However, only the 0500 position provides adequate airframe clearance once the landing gear is placed in the aircraft. Installation of the lock ring 180 degrees (out) or at the 1100 position allows the tab of the lock ring to interfere with the aircraft structure at the aft side of the gear well."



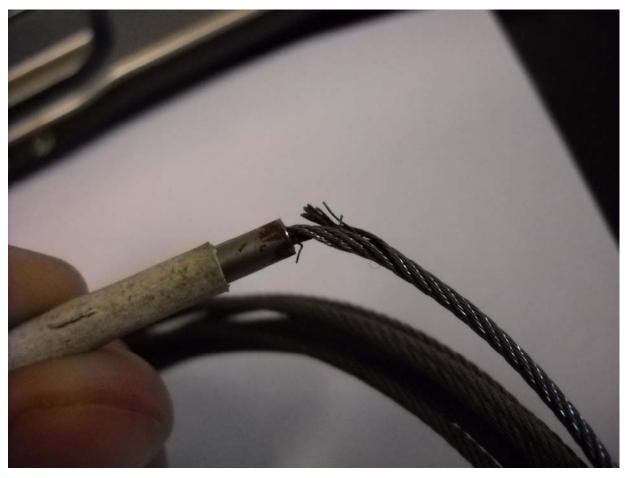


(Shock P/N: 60185001; Assembly P/N: 601850281. I was so intent on observing the locking ring clearances between the two photos I did not initially catch the background "face". Trick shot! Ed.)

Part Total Time: 7,260.0 hours

Cessna: 208B; Frayed Flap Cable; ATA 2750

A mechanic states, "During a routing inspection, (I) found a flap cable (P/N 2660001105) frayed at the connection to the fairlead—about 30 percent of the (*strands*) were broken. (It) runs from the inner bell crank to the outer end of the flap. This cable was original as far as can be traced back—the original P/N tag was still installed. (And) judging from the slip mark, the cable had not (moved from its swaged fitting)."



Part Total Time: (unknown)

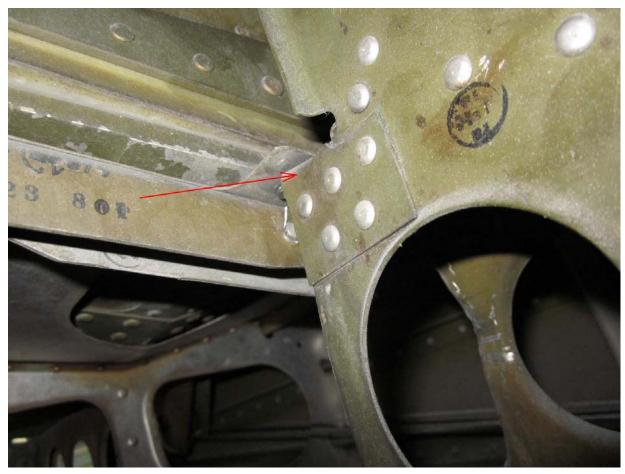
Cessna: 404; Damaged Elevator Mount Brackets; ATA (N/A)

"While this aircraft was tied down," says a submitter, "the control wheel was secured in the full up position with a seat belt—instead of the approved gust lock device. This (*ad hoc arrangement*) allowed the elevators to have some movement—high winds prior to the intended flight (*allowed the elevator*) to hammer its lower stop until the bracket's upper mounts failed.

"The pilot stated he conducted a flight control check prior to taxi—everything felt fine. It was not until the control surface *(incurred)* an air load that he discovered a problem and aborted the takeoff."







(*No P/N's were provided with this report. Red arrows are my insertions—Ed.*) Part Total Time: (unknown)

Cessna: 525C; Failed Brake Rotors (friction pads); ATA 3242

A submission from a corporate operator states, "The brake pads on both the L/H and R/H brake rotors are debonding—with 'chunks' missing." (*Rotor P/N: 90006028; Brake Assembly P/N: 90006022. Red arrows are my insertions—Ed.*)



Part Total Time: 302.0 hours

Piaggio: P-180; Improper Elevator Installation; ATA (N/A)

(*The FAA's Small Airplane Directorate in Kansas City provides the following safety admonition. Aerospace Engineer Mike Kiesov narrates the discussion; contact information follows the article.*)

"The purpose of this *Alerts* article is to describe an event where the elevators on a Piaggio Aero P180 *Avanti* airplane were installed incorrectly. The R/H elevator was installed upside down on the left side of the airplane, and similarly, the L/H elevator was installed upside down on the right side of the airplane. The airplane was then rigged within acceptable limits per the AMM (aircraft maintenance manual). During flight, this reversed elevator installation greatly influenced elevator trim authority—additionally causing the airplane yoke to be in a noticeably different longitudinal position.

"The airplane manufacturer has subsequently incorporated a note in the airplane manual for this model P180 *Avanti*—a similar note is intended for their model P180 *Avanti II*.

"A very simple way to ensure the correct elevator is installed on the proper side is to verify the location of the static wicks—they must be on the upper surface of the elevator. This fact is reflected in the additional note added to the P180 *Avanti* AMM."



(For further information contact Aerospace Engineer Mike Kiesov; 901 Locust St., Rm. 301, Kansas City, MO. 64106; phone 816-329-4144.)

Part Total Time: (N/A)

Piper: PA44-180; Stuck Throttle Cable; ATA 7603

(This aircraft supports a pair of Lycoming O360A1H6 engines.)

A submission from another corporate operator states, "After practicing an instrument approach and go-around,' the L/H engine throttle lever stuck at 25 inches of manifold pressure and 2500 RPM. Departing from the airport control area, the instructor pilot was able to reduce the L/H throttle down to 16-18 inches of manifold pressure at 2500 RPM. After discussion with flight department personnel, it was decided...to shut down the L/H engine and perform a single engine approach and landing. An emergency was declared, and the aircraft landed uneventfully.

"Since (*there have been*) previous instances of problems with engine control cables in this particular make and model aircraft, the L/H engine throttle cable (*P/N 554546*) was replaced as part of a scheduled progressive inspection." (*Indeed—this throttle cable P/N reflects seven times in the SDRS database. It would have been most helpful had you speculated as to the cause of the cable's binding—Ed.*)

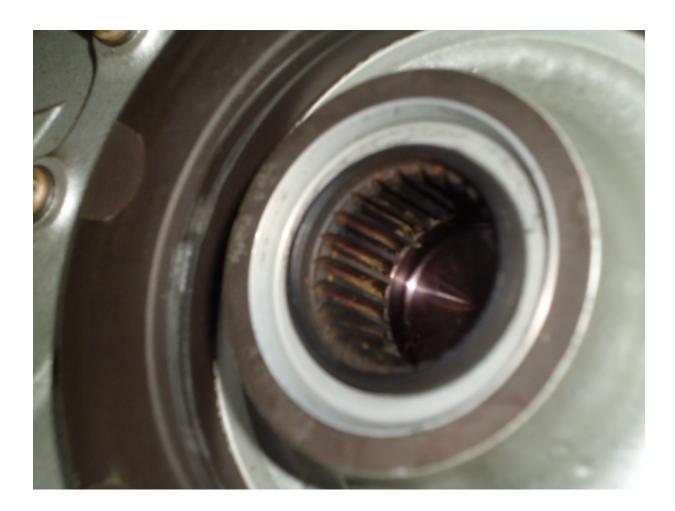
Part Total Time: 705.0 hours

POWERPLANTS

Rolls Royce: BR700710A110; Fuel Pump Shaft Migration; ATA 7314

(This corporate submission references a Gulfstream GV aircraft.)

"While performing a SB (Service Bulletin) to replace the fuel pump spline adapter, we found the engine driven fuel pump drive shaft to be migrating out of the fuel pump and into the accessory gear case. Upon inspection of the gear case, we found a retaining plug in the gear case spline to be pushing into the gear case—allowing the fuel pump drive shaft to migrate out of the fuel pump." (*Gear box P/N: 39500221.*)





Part Total Time: 5,670.0 hours

AIR NOTES

INTERNET SERVICE DIFFICULTY REPORTING (iSDR) WEB SITE

The Federal Aviation Administration (FAA) Internet Service Difficulty Reporting (iSDR) web site is the front-end for the Service Difficulty Reporting System (SDRS) database that is maintained by the Aviation Data Systems Branch, AFS-620, in Oklahoma City, Oklahoma. The iSDR web site supports the Flight Standards Service (AFS), Service Difficulty Program by providing the aviation community with a voluntary and electronic means to conveniently submit in-service reports of failures, malfunctions, or defects on aeronautical products. The objective of the Service Difficulty Program is to achieve prompt correction of conditions adversely affecting continued airworthiness of aeronautical products. To accomplish this, Malfunction or Defect Reports (M or Ds) or Service Difficulty Reports (SDRs) as they are commonly called, are collected, converted into a common SDR format, stored, and made available to the appropriate segments of the FAA, the aviation community, and the general public for review and analysis. SDR data is accessible through the "Query SDR data" feature on the iSDR web site at: http://av-info.faa.gov/sdrx/Query.aspx.

In the past, the last two pages of the Alerts contained a paper copy of FAA Form 8010-4, Malfunction or Defect Report. To meet the requirements of *Section 508, this form will no longer be published in the Alerts; however, the form is available on the Internet at: <u>http://forms.faa.gov/forms/faa8010-4.pdf</u>. You can still download and complete the form as you have in the past.

*Section 508 was enacted to eliminate barriers in information technology, to make available new opportunities for people with disabilities, and to encourage development of technologies that will help achieve these goals.

A report should be filed whenever a system, component, or part of an aircraft, powerplant, propeller, or appliance fails to function in a normal or usual manner. In addition, if a system, component, or part of an aircraft, powerplant, propeller, or appliance has a flaw or imperfection, which impairs or may impair its future function, it is considered defective and should be reported under the Service Difficulty Program.

The collection, collation, analysis of data, and the rapid dissemination of mechanical discrepancies, alerts, and trend information to the appropriate segments of the FAA and the aviation community provides an effective and economical method of ensuring future aviation safety.

The FAA analyzes SDR data for safety implications and reviews the data to identify possible trends that may not be apparent regionally or to individual operators. As a result, the FAA may disseminate safety information to a particular section of the aviation community. The FAA also may adopt new regulations or issue airworthiness directives (ADs) to address a specific problem.

The iSDR web site provides an electronic means for the general aviation community to voluntarily submit reports, and may serve as an alternative means for operators and air agencies to comply with the reporting requirements of 14 Title of the Code of Federal Regulations (CFR) Section 121.703, 125.409, 135.415, and 145.221, if accepted by their certificate-holding district office. FAA Aviation Safety Inspectors may also report service difficulty information when they conduct routine aircraft maintenance surveillance as well as accident and incident investigations.

The SDRS database contains records dating back to 1974. At the current time, we are receiving approximately 40,000 records per year. Reports may be submitted to the iSDR web site on active data entry form or submitted hardcopy to the following address.

The SDRS and iSDR web site point of contact is:

Pennie Thompson Service Difficulty Reporting System, Program Manager Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125 Telephone: (405) 954-5313 SDRS Program Manager e-mail address: <u>9-AMC-SDR-ProgMgr@faa.gov</u>

IF YOU WANT TO CONTACT US

We welcome your comments, suggestions, and questions. You may use any of the following means of communication to submit reports concerning aviation-related occurrences.

Editor: Daniel Roller (405) 954-3646 FAX: (405) 954-4570 or (405) 954-4655

E-mail address: <u>Daniel.Roller@faa.gov</u>

Mailing address: FAA, ATTN: AFS-620 ALERTS, P.O. Box 25082, Oklahoma City, OK 73125-5029

You can access current and back issues of this publication from the internet at: <u>http://av-info.faa.gov/</u>. Select the General Aviation Airworthiness Alerts heading.

AVIATION SERVICE DIFFICULTY REPORTS

The following are abbreviated reports processed for the previous month, which have been entered into the FAA Service Difficulty Reporting System (SDRS) database. This is not an all-inclusive listing of Service Difficulty Reports. For more information, contact the FAA, Regulatory Support Division, Aviation Data Systems Branch, AFS-620, located in Oklahoma City, Oklahoma. The mailing address is:

FAA Aviation Data Systems Branch, AFS-620 PO Box 25082 Oklahoma City, OK 73125

To retrieve the complete report, click on the Control Number located in each report. These reports contain raw data that has not been edited. Also, because these reports contain raw data, the pages containing the raw data are not numbered.

If you require further detail please contact AFS-620 at the address above.

Federal Aviation Administration

Service Difficulty Report Data

Sorted by aircraft make and model then engine make and model. This report derives from unverified information submitted by the aviation community without FAA review for accuracy.

Control Number	Aircraft Make	Engine Make Component Make	Part Name	Part Condition
Difficulty Date	Aircraft Model	Engine Model Component Model	Part Number	Part Location
2012FA0000214			CARBURETOR	MISREPAIRED
2/29/2012			105219	

CARBURETOR FOUND TO HAVE THE WHITE PLASTIC, ADVANCED POLYMER HOLLOW FLOAT. CARBURETOR IS NOT IN COMPLIANCE WITH SB MSA-13, WHICH STATES PRIOR TO DEC 31, 2008, ALL CARBURETORS NOT ALREADY IN COMPLIANCE MUST BE UPDATED TO THE CURRENT FLOAT. ADDITIONALLY THIS CARBURETOR DOES NOT COMPLY WITH SB-2. SB-2 STATES WITHIN 30 DAYS OF THE DATE OF ISSUANCE OF THIS FLIGHT SAFETY SB, EACH OWNER OF THIS FLOAT CARBURETOR NOT EQUIPPED WITH A SOLID, BLUE EPOXY FLOAT IS REQUESTED AND STONGLY ENCOURAGED TO INSPECT THE CARBURETOR AND TO REINSPECT THE CARBURETOR AT 30 DAY INERVALS THEREAFTER UNTIL THE FLOAT IS REPLACED BY A SOLID BLUE EPOXY FLOAT. DATE O THS BULLETIN IS FEB 1, 2009 MAKING COMPLIANCE MAR 1, 2009. SUBMITTER RECOMMENDS REPLACING ALL HOLLOW FLOATS IAW SB LISTED ABOVE.

2012FA0000250			LIFE VEST	FAILED
4/30/2012			PO723E105PA	
ADHESIVE SEPARATION AT THE O	NE ORAL INFLATI	ION TUBE ATTACHI	NG POINT ON LIFE VE	EST.
2012FA0000251			LIFE VEST	DAMAGED
5/1/2012			PO723E105PW	CABIN
ADHESIVE SEPARATION AT BOTH	INFLATION TUBE	S.		
2012FA0000256			DIAPHRAGM	FAILED
3/5/2012			AV2541801	FUEL SERVO
FUEL INJECTION SERVO, WAS REC THE SERVO REGULATOR ADJUST DIAPHRAGM STEM UNSCREWED F DURING ASSY, THE NUT DID NOT U NOTE 2012-03-06 WHICH SUPERSE THE DIAPHGRAM.	MENT NUT TO CH ROM THE FUEL D JNSCREW.) THIS	ECK THE NULL SET DIAPHRAGM ASSY. (FUEL DIAPHRAGM,	TING OF THE REGUL SINCE LOCTITE IS A PN AV2541801, IS TH UCTION OR LOT NR	ATOR, THE FUEL PPLIED TO THE NUT IE SUBJECT OF AD
2012FA0000264			DIAPHRAGM	DAMAGED
3/29/2012			AV2541801	FUEL SYSTEM
FUEL INJECTION SERVO MODEL N CUSTOMER COMPLAINT STATED " PERFORMING A PRELIMINARY FUE REGULATOR ADJUSTMENT NUT TO NUT BACKING OFF THE STEM, THE DIAPHRAGM STEM BY THE APPLIC COULD BE FOUND ON THE ASSY. THAT THIS DEFECT MAY NOT BE T	MIXTURE CHANG EL FLOW CHECK O CHECK FOR WH STEM BACKED (ATION OF LOCKI THIS PN DIAPHRA	ES TO VERY RICH A EVALUATION, THE T HAT IS TERMED A "N OUT OF THE DIAPHI NG FLUID DURING F AGM IS THE SUBJEC	AT 200 DEGREES OIL ECH ATTEMPTED TO JULL SETTING CHEC RAGM ASSY. (THE NU FINAL CALIBRATION S T OF AD NOTE 2012-	. TEMP". WHILE D REMOVE THE OUTER K". INSTEAD OF THE JT IS SECURED TO THE SETTING) NO LOT NR
2012FA0000223	LYC	LYC	INTAKE VALVE	MISMANUFACTURED
1/19/2012	O235L2C		LW11901	ENGINE CYLINDER

AFTER EVALUATING CYINDER AND FAILED INTAKE VALVE, IT IS DETERMINED, VALVE FAILED DUE TO "BAD
METAL". THE EVIDENCE DOES NOT SUPPORT FOREIGN OBJECT DAMAGE, EXCESSIVE HEAT OR OVERSPEED.

EE4Y2012050700177 AIRBUS

A319132

4/18/2012

PROFILE CORRODED

., . ., _

D5367423920000 ZONE 100

AFT CARGO BAY PROFILE ASSY CORRODED, FROM FR 58 TO FR 59, S38L. PART REPLACED IAW THE SRM 51-42-11.
2012FA0000206 AIRBUS FLOORBEAM CORRODED

2012FA0000206	AIRBUS		FLOORBEAM	CORRODED	
2/19/2012	A320214		D5347220922000	FUSELAGE	
CORROSION FOUND ON CABIN FLOORBEAM TOP SURFACE AT FRAME 66, 28" RT OF CENTERLINE, CORROSION MEASURED LENGTH 2"X 2" X .028 D, OUT OF LIMITS SRM 53-00-14.					
2012FA0000279	AIRBUS		FLOORBEAM	CORRODED	
2/19/2012	A320214		D5347220922000	FRAME 66	
		RBEAM TOP SURFACE DEPTH .028" OUT OF L			
2012FA0000283	AMD		PRESSURE SWITC	^{CH} LEAKING	
5/5/2012	FALCON2000		7G10521	HYD SYSTEM	
PRESSURE SWITCH PRESSURE RELIEF	l (150GC) PN: 7G10 VENT HOLE. A NEV	052-1 SN:303, WHICH IN W SWITCH PN: 1203P02	DISCOVERED TO BE A PARKING ITERNALLY FAILED AND LEAKE 224 WAS INSTALLED AND SB SE IPROVEMENT WAS COMPLIED V	D FLUID FROM A 8F2000-0387 FOR	
2012FA0000239	AMD		CIRCUIT BOARD	BURNED	
4/16/2012	FALCON50MYS	Г	242501	ZONE 200	
PULLED THE CIRCU REQUIRE SPECIAL F REQUESTED AND A CIRCUIT BOARD ON DISASSEMBLE IT W	IT BREAKER THAT HANDLING NOR DI TC CLEARED THE THE RT RELAY/CO AS DETERMINED T	CONTROLS THAT CIR D IT DEVIATE FROM IT ACFT BACK TO DEPAR ONTROL BOARD PANE	SITION ON RT PITOT/STATIC HEA CUIT. THE ODOR DISSIPATED. S FLIGHT PLAN ROUTE EXCEPT RTURE POINT. ON INSPECTION, L BEHIND THE F/O SEAT WAS B THE BOARD HAD BURNED THRO PITOT/STATIC SYS.	THE ACFT DID NOT THE CREW FOUND THAT THE URNED. AFTER	
2012FA0000229	BBAVIA		SPAR	DAMAGED	
3/15/2012	7AC		5147	WINGS	
			FAND RT WING TIPS WERE DAN RT AFT SPAR WAS REPAIRED		
2012FA0000201	BEECH	PWA	STABILIZER	MISMANUFACTURED	
4/18/2012	200BEECH	PT6A42		HORIZONTAL	
FOUND HORIZONTAL STAB FORWARD SPAR AND RIBS ARE NOT RIVETED CORRECTLY FROM THE FACTORY, FOUND MANY RIVETS THAT GO THROUGHT THE FORWARD SPAR THAT ARE TOO SHORT AND ALSO WHERE THE RIB AND THE FWD SPAR COME TOGETHER, THE RIVET MISSES THE RIB. FOUND SAME PROBLEM ON OTHER ACFT INSPECTED.					
2012FA0000219	BEECH	CONT	CONTROL ROD	DAMAGED	
2/25/2012	58	IO550*	1023890103	THROTTLE BODY	
END OF CONTROL W BEEN SWEDGED IN		ED FOR ROD END FOR	R THROTTLE CAME OFF CONTRO	OL. APPEARS TO HAVE	

2012FA0000266	BEECH	CONT	IMPULSE COUPLIN	GDESTROYED	
3/27/2012	58	IO550C	M3050	LT MAGNETO	
LOW OIL PRESSURE FOUND THE LT MAG COUPLING WAS FOU RETAINING NUT, WA FAILURE WAS. WE B PLACE. THE MAGNE	, WE FOUND FORE NETO HAD MOVED IND DESTROYED. SHER AND COTTE ELIEVE 1 OF THE TO DRIVE RETAIN	PRESSURE WAS BELOW LIMITS A EIGN MATERIAL UNDER OIL PRES D (ROTATED) POSITION. UPON RE THE IMPULSE SHELL WAS GONE ER KEY WERE STILL INTACT. IT IS PAWLS MAY HAVE COME LOOSE ER AND BUSHINGS WERE ALSO I SNETO AND ENGINE WILL BE SEN	SSURE ADJUST SEAT EMOVAL OF LT MAGN (HAD FALLEN INTO HARD TO DETERMIN . THE PAWL ATTACH DESTROYED WITH M	∵ INVESTIGATING IT, IETO THE IMPULSE THE ENGINE). NE WHAT THE ACTUAL RIVET WAS STILL IN OST OF THE PIECES	
2012FA0000291	BEECH	LYC	FASTENER	BACKED OUT	
5/1/2012	76	O360*		LT AIRBOX	
CARBURETOR HEAT THROAT OF THE CAR POSITION. INSPECTE HARDWARE, NONE V	VALVE SHAFT BE RBURETOR, BLOC ED INTAKE SYS AN VERE FOUND. NO	JRETOR HEAT VALVE SHAFT SCF ARING WAS DAMAGED. ONE OF KING THE THROTTLE PLATE FRO ND EACH CYLINDER TO TRY TO F CYLINDERS HAD ANY VISIBLE IN FOUND TO BE WORN. ACFT HAD	THE MISSING SCREW OM RETURNING COM IND ANY OF THE OTH ITERNAL DAMAGE. TO	VS WAS LODGED IN PLETELY TO THE IDLE HER MISSING OP CARBURETOR HEAT	
2012FA0000257	BEECH	CONT SLICK	CONTACT	MISSING	
3/9/2012	A36	IO550*	M3081	MAGNETO	
ENGINE WOULD STA DISASSEMBLED FAR MISSING. (CONTACT MAGNETO. REASSEM	LL. PERFORMED I ENOUGH TO FINI POINT). FURTHEF MBLED MAG WITH	VHEN THE MAG SWITCH WAS MC RUN UP TO VERIFY DISCREPANC D THAT THE CONTACT ASSY PN I R INSPECTION FOUND THE MISSI NEW CONTACT ASSY PN M3081 DPER CRIMP OF THE CONTACT F	CY. REMOVED MAG F M3081 HAD THE ARM NG POINT AND REMO IAW CMM. PERFORM	ROM ENGINE AND CONTACT ASSY DVED IT FROM IED ENGINE RUNS WITH	
2012FA0000265	BEECH	CONT	SPRING	BROKEN	
3/13/2012	A36	IO550B	35524664	RUDDER	
DURING FLIGHT, THE PILOT NOTICED THE AILERON CONTROL WAS PULLING TO THE RT. ACFT RETURNED TO BASE WITHOUT INCIDENT. UPON INSP OF AILERON CONTROL SYS THE UPPER AILERON/RUDDER INTERCONNECT SPRING PN 35-5524664 WAS FOUND BROKEN AT THE BELLCRANK ARM, PN 002-524018-25 END. PROBABLE CAUSE FOR THIS FAILURE IS TIME IN SERVICE.					
2012FA0000238	BEECH		SMOKE GOGGLES	FAILED	
4/26/2012	B300		118077	COCKPIT	
THE STRAPS TO THE	GOGGLES LENSI	S AND CO-PILOT'S SMOKE GOGGI ES FAILED, CAUSING THE STRAP OTH THE PILOT AND CO-PILOTS	S TO FALL OFF ALON		
2012FA0000249	BEECH	CONT	CIRCUIT BREAKER	FAILED	
4/28/2012	F33A	IO520*	35380132103	STROBE LIGHT	
		BE INOPERATIVE. DURING TROUNSTALLED A NEW STROBE LIGHT			
2012FA0000240	BEECH	CONT	CIRCUIT BREAKER	FAILED	
4/26/2012	F33A	IO520BB	35380132103	TAXI LIGHT	
	FAULT. INSTALLEI	NOPERATIVE. DURING TROUBLES D NEW CIRCUIT BREAKER. OPS (TIME.			

2012FA0000292	BEECH	CONT		SWITCH	FAILED
5/9/2012	F33A	IO520BB		35380132103	STROBE
	MING APART AND 0 CYCLES. INSTAL	HAD FAILED.	THE SWITCH WAS II	NSTALLED 5 APR 200	ESHOOTING, FOUND 09 WITH 2730 TSN WITH 600D. NO CAUSE OR
2012FA0000205	BEECH	CONT		KEY	SHEARED
2/20/2012	F33A	IO550B		C28150	ALTERNATOR SHAFT
WOODRUFF KEY ON SPOOLING ON THE A CLUTCH RETAINING ALTERNATOR SHAF CLUTCH PROPERLY	ALTERNATOR SHA NUT AND COTTER T APPEARS TO BE	FT DAMAGING	G THE ALTERNATOR ED STILLIN PLACE (R RING GEAR PN 632 ON THE SHAFT. THE	018. ALTERNATOR
W59R2012043031326	BEECH	CONT	BEECH	HUB	CRACKED
4/27/2012	K35	IO470C	278	2781007	PROPELLER
PROPELLER SUBMIT 62-17-01. HUB WAS F					CLE INSPECTED IAW AD
2012FA0000218	BELL	ALLSN		INDICATOR	FAILED
3/7/2012	206B	250C20R		206040093001	XMSN OIL SYS
REVEALED COATING	6 WITH LEVEL MAF	RKINGS HAD S	EPARATED FROM 1	THE METALLIC BACK	PLATE. THERE IS A
RING OF HOLES ON THE BACK PLATE WI SIGHT GLASS. THE S TRANSMISSION. IMP PROBLEMS IF LEFT I	THE CIRCUMFERE ERE NO LONGER / SIGHT GLASS IS TH ROPER SERVICIN UNDETECTED.	ENCE OF THE ALIGNED. THIS HE ONLY MEAI	INDICATOR. THE HO S CONDITION WOUL NS TO DETERMINE ANSMISSION PRESE	DLES IN THE LEVEL I .D NOT ALLOW OIL T THE OIL LEVEL IN TH ENTS A POTENTIAL F	MARKING COATING AND O DRAIN FROM THE HE MAIN ROTOR FOR SERIOUS
RING OF HOLES ON THE BACK PLATE WI SIGHT GLASS. THE S TRANSMISSION. IMP	THE CIRCUMFERE ERE NO LONGER / SIGHT GLASS IS TH ROPER SERVICIN	ENCE OF THE ALIGNED. THIS HE ONLY MEAI	INDICATOR. THE HO CONDITION WOUL NS TO DETERMINE	DLES IN THE LEVEL I .D NOT ALLOW OIL T THE OIL LEVEL IN TH	MARKING COATING AND O DRAIN FROM THE HE MAIN ROTOR
RING OF HOLES ON THE BACK PLATE WE SIGHT GLASS. THE S TRANSMISSION. IMP PROBLEMS IF LEFT I 2012FA0000267 4/2/2012	THE CIRCUMFERE ERE NO LONGER / SIGHT GLASS IS TH ROPER SERVICIN UNDETECTED. BELL 407	ENCE OF THE ALIGNED. THIS HE ONLY MEAI G OF THE TRA	INDICATOR. THE HO CONDITION WOUL NS TO DETERMINE ANSMISSION PRESE BELL	DLES IN THE LEVEL I D NOT ALLOW OIL T THE OIL LEVEL IN TH ENTS A POTENTIAL F SHAFT 407040416103	MARKING COATING AND O DRAIN FROM THE HE MAIN ROTOR FOR SERIOUS CORRODED T/R GB OUTPUT
RING OF HOLES ON THE BACK PLATE WE SIGHT GLASS. THE S TRANSMISSION. IMP PROBLEMS IF LEFT I 2012FA0000267 4/2/2012	THE CIRCUMFERE ERE NO LONGER / SIGHT GLASS IS TH ROPER SERVICIN UNDETECTED. BELL 407 NSPECTION FOUN	ENCE OF THE ALIGNED. THIS HE ONLY MEAI G OF THE TRA	INDICATOR. THE HO CONDITION WOUL NS TO DETERMINE ANSMISSION PRESE BELL	DLES IN THE LEVEL I D NOT ALLOW OIL T THE OIL LEVEL IN TH ENTS A POTENTIAL F SHAFT 407040416103	MARKING COATING AND O DRAIN FROM THE HE MAIN ROTOR FOR SERIOUS
RING OF HOLES ON THE BACK PLATE WI SIGHT GLASS. THE S TRANSMISSION. IMP PROBLEMS IF LEFT I 2012FA0000267 4/2/2012 DURING 60 MONTH I	THE CIRCUMFERE ERE NO LONGER / SIGHT GLASS IS TH ROPER SERVICIN UNDETECTED. BELL 407 NSPECTION FOUN D TO BE UNSERVIC	ENCE OF THE ALIGNED. THIS HE ONLY MEAI G OF THE TRA	INDICATOR. THE HO CONDITION WOUL NS TO DETERMINE ANSMISSION PRESE BELL	DLES IN THE LEVEL I D NOT ALLOW OIL T THE OIL LEVEL IN TH ENTS A POTENTIAL F SHAFT 407040416103	MARKING COATING AND O DRAIN FROM THE HE MAIN ROTOR FOR SERIOUS CORRODED T/R GB OUTPUT
RING OF HOLES ON THE BACK PLATE WI SIGHT GLASS. THE S TRANSMISSION. IMP PROBLEMS IF LEFT I 2012FA0000267 4/2/2012 DURING 60 MONTH I SHAFT DETERMINED	THE CIRCUMFERE ERE NO LONGER / SIGHT GLASS IS TH ROPER SERVICIN UNDETECTED. BELL 407 NSPECTION FOUN D TO BE UNSERVIC	ENCE OF THE ALIGNED. THIS HE ONLY MEAI G OF THE TRA	INDICATOR. THE HO CONDITION WOUL NS TO DETERMINE ANSMISSION PRESE BELL	DLES IN THE LEVEL I D NOT ALLOW OIL T THE OIL LEVEL IN TH ENTS A POTENTIAL F SHAFT 407040416103 BOUT 4 INCHES INBE	MARKING COATING AND O DRAIN FROM THE HE MAIN ROTOR FOR SERIOUS CORRODED T/R GB OUTPUT D FROM END OF SHAFT.
RING OF HOLES ON THE BACK PLATE WE SIGHT GLASS. THE S TRANSMISSION. IMP PROBLEMS IF LEFT U 2012FA0000267 4/2/2012 DURING 60 MONTH I SHAFT DETERMINED FOTR0503201235471	THE CIRCUMFERE ERE NO LONGER / SIGHT GLASS IS TH ROPER SERVICIN UNDETECTED. BELL 407 NSPECTION FOUN TO BE UNSERVIC BOEING 717200	ENCE OF THE ALIGNED. THIS HE ONLY MEAI G OF THE TRA ND PITTING ON CEABLE.	INDICATOR. THE HG S CONDITION WOUL NS TO DETERMINE ANSMISSION PRESE BELL	DLES IN THE LEVEL I D NOT ALLOW OIL T THE OIL LEVEL IN TH ENTS A POTENTIAL F SHAFT 407040416103 BOUT 4 INCHES INBE	MARKING COATING AND O DRAIN FROM THE HE MAIN ROTOR FOR SERIOUS CORRODED T/R GB OUTPUT D FROM END OF SHAFT. CORRODED ZONE 100
RING OF HOLES ON THE BACK PLATE WE SIGHT GLASS. THE S TRANSMISSION. IMP PROBLEMS IF LEFT I 2012FA0000267 4/2/2012 DURING 60 MONTH I SHAFT DETERMINED FOTR0503201235471 4/29/2012	THE CIRCUMFERE ERE NO LONGER / SIGHT GLASS IS TH ROPER SERVICIN UNDETECTED. BELL 407 NSPECTION FOUN TO BE UNSERVIC BOEING 717200	ENCE OF THE ALIGNED. THIS HE ONLY MEAI G OF THE TRA ND PITTING ON CEABLE.	INDICATOR. THE HG S CONDITION WOUL NS TO DETERMINE ANSMISSION PRESE BELL	DLES IN THE LEVEL I D NOT ALLOW OIL T THE OIL LEVEL IN TH ENTS A POTENTIAL F SHAFT 407040416103 BOUT 4 INCHES INBE	MARKING COATING AND O DRAIN FROM THE HE MAIN ROTOR FOR SERIOUS CORRODED T/R GB OUTPUT D FROM END OF SHAFT. CORRODED ZONE 100
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RING OF HOLES ON THE BACK PLATE WE SIGHT GLASS. THE S TRANSMISSION. IMP PROBLEMS IF LEFT I 2012FA0000267 4/2/2012 DURING 60 MONTH I SHAFT DETERMINED FOTR0503201235471 4/29/2012 CORROSION ON FUS FY4Y201203070001 3/7/2012 DURING PERFORME STATION BS 1067 TO	THE CIRCUMFERE ERE NO LONGER / SIGHT GLASS IS TH ROPER SERVICIN UNDETECTED. BELL 407 NSPECTION FOUN TO BE UNSERVIC BOEING 717200 SELAGE SKIN BETT BOEING 727212 D 6C-CHECK, COF 0 1073 BETWEEN S	ENCE OF THE ALIGNED. THIS HE ONLY MEAL G OF THE TRA ND PITTING ON CEABLE. WEEN BS 848- WEEN BS 848- RROSION WAS 3-12L AND S-15	INDICATOR. THE HG S CONDITION WOUL NS TO DETERMINE ANSMISSION PRESE BELL I OUTPUT SHAFT A 858, L28L TO 28R. F 500ND ON AFT EN 51 (DIMENSIONS OF	DLES IN THE LEVEL I D NOT ALLOW OIL T THE OIL LEVEL IN TH ENTS A POTENTIAL F SHAFT 407040416103 BOUT 4 INCHES INBE SKIN REPAIRED ON FASI V BEAR STRAP BAC1505100617 ITRY DOOR CUTOUT F CORROSION AREA	MARKING COATING AND O DRAIN FROM THE HE MAIN ROTOR FOR SERIOUS CORRODED T/R GB OUTPUT D FROM END OF SHAFT. CORRODED ZONE 100 VO 22109, NR 35471. CORRODED ZONE 800
RING OF HOLES ON THE BACK PLATE WE SIGHT GLASS. THE S TRANSMISSION. IMP PROBLEMS IF LEFT I 2012FA0000267 4/2/2012 DURING 60 MONTH I SHAFT DETERMINED FOTR0503201235471 4/29/2012 CORROSION ON FUS FY4Y201203070001 3/7/2012 DURING PERFORME STATION BS 1067 TO	THE CIRCUMFERE ERE NO LONGER / SIGHT GLASS IS TH ROPER SERVICIN UNDETECTED. BELL 407 NSPECTION FOUN TO BE UNSERVIC BOEING 717200 SELAGE SKIN BETT BOEING 727212 D 6C-CHECK, COF 0 1073 BETWEEN S ND OUT CORROSI	ENCE OF THE ALIGNED. THIS HE ONLY MEAL G OF THE TRA ND PITTING ON CEABLE. WEEN BS 848- WEEN BS 848- RROSION WAS 3-12L AND S-15	INDICATOR. THE HG S CONDITION WOUL NS TO DETERMINE ANSMISSION PRESE BELL I OUTPUT SHAFT A 858, L28L TO 28R. F 500ND ON AFT EN 51 (DIMENSIONS OF	DLES IN THE LEVEL I D NOT ALLOW OIL T THE OIL LEVEL IN TH ENTS A POTENTIAL F SHAFT 407040416103 BOUT 4 INCHES INBE SKIN REPAIRED ON FASI V BEAR STRAP BAC1505100617 ITRY DOOR CUTOUT F CORROSION AREA	MARKING COATING AND O DRAIN FROM THE HE MAIN ROTOR FOR SERIOUS CORRODED T/R GB OUTPUT D FROM END OF SHAFT. CORRODED ZONE 100 VO 22109, NR 35471. CORRODED ZONE 800 BEAR STRAP AT :8.750 × 2.250 AND 7.000
RING OF HOLES ON THE BACK PLATE WI SIGHT GLASS. THE S TRANSMISSION. IMP PROBLEMS IF LEFT I 2012FA0000267 4/2/2012 DURING 60 MONTH I SHAFT DETERMINED FOTR0503201235471 4/29/2012 CORROSION ON FUS FY4Y201203070001 3/7/2012 DURING PERFORME STATION BS 1067 TO × 2.250). AFTER BLEI	THE CIRCUMFERE ERE NO LONGER / SIGHT GLASS IS TH ROPER SERVICIN UNDETECTED. BELL 407 NSPECTION FOUN TO BE UNSERVIC BOEING 717200 SELAGE SKIN BETT BOEING 727212 D 6C-CHECK, COF 0 1073 BETWEEN S ND OUT CORROSI	ENCE OF THE ALIGNED. THIS HE ONLY MEAL G OF THE TRA ND PITTING ON CEABLE. WEEN BS 848- WEEN BS 848- RROSION WAS 3-12L AND S-15	INDICATOR. THE HG S CONDITION WOUL NS TO DETERMINE ANSMISSION PRESE BELL I OUTPUT SHAFT A 858, L28L TO 28R. F 500ND ON AFT EN 51 (DIMENSIONS OF	DLES IN THE LEVEL I D NOT ALLOW OIL T THE OIL LEVEL IN TH ENTS A POTENTIAL F SHAFT 407040416103 BOUT 4 INCHES INBE SKIN REPAIRED ON FASI V BEAR STRAP BAC1505100617 ITRY DOOR CUTOUT CORROSION AREA /AS OVER LIMIT IAW	MARKING COATING AND O DRAIN FROM THE HE MAIN ROTOR FOR SERIOUS CORRODED T/R GB OUTPUT D FROM END OF SHAFT. CORRODED ZONE 100 VO 22109, NR 35471. CORRODED ZONE 800 BEAR STRAP AT 38.750 × 2.250 AND 7.000 SRM 53-30-1, PAGE 2C.
RING OF HOLES ON THE BACK PLATE WE SIGHT GLASS. THE S TRANSMISSION. IMP PROBLEMS IF LEFT I 2012FA0000267 4/2/2012 DURING 60 MONTH I SHAFT DETERMINED FOTR0503201235471 4/29/2012 CORROSION ON FUS FY4Y201203070001 3/7/2012 DURING PERFORME STATION BS 1067 TC × 2.250). AFTER BLEI 7AHR2012040600001 4/6/2012	THE CIRCUMFERE ERE NO LONGER / SIGHT GLASS IS TH ROPER SERVICIN UNDETECTED. BELL 407 NSPECTION FOUN TO BE UNSERVIC BOEING 717200 SELAGE SKIN BETT BOEING 727212 D 6C-CHECK, COF 0 1073 BETWEEN S ND OUT CORROSI BOEING 7372X6C AT TRACK AT STA	ENCE OF THE ALIGNED. THIS HE ONLY MEAI G OF THE TRA ID PITTING ON CEABLE. WEEN BS 848- WEEN BS 848- RROSION WAS S-12L AND S-15 ON, THE PENE 663 TO 727 AN	INDICATOR. THE HG S CONDITION WOUL NS TO DETERMINE ANSMISSION PRESE BELL NOUTPUT SHAFT AN 858, L28L TO 28R. F FOUND ON AFT EN 5L (DIMENSIONS OF ETRATION DEPTH W	DLES IN THE LEVEL I D NOT ALLOW OIL T THE OIL LEVEL IN TH SNTS A POTENTIAL F SHAFT 407040416103 BOUT 4 INCHES INBE SKIN REPAIRED ON FASI V BEAR STRAP BAC1505100617 ITRY DOOR CUTOUT CORROSION AREA (AS OVER LIMIT IAW SEAT TRACK	MARKING COATING AND O DRAIN FROM THE HE MAIN ROTOR FOR SERIOUS CORRODED T/R GB OUTPUT D FROM END OF SHAFT. CORRODED ZONE 100 VO 22109, NR 35471. CORRODED ZONE 800 BEAR STRAP AT :8.750 × 2.250 AND 7.000 SRM 53-30-1, PAGE 2C. CORRODED
RING OF HOLES ON THE BACK PLATE WI SIGHT GLASS. THE S TRANSMISSION. IMP PROBLEMS IF LEFT I 2012FA0000267 4/2/2012 DURING 60 MONTH I SHAFT DETERMINED FOTR0503201235471 4/29/2012 CORROSION ON FUS FY4Y201203070001 3/7/2012 DURING PERFORME STATION BS 1067 TC × 2.250). AFTER BLEI 7AHR2012040600001 4/6/2012 CORROSION ON SEA	THE CIRCUMFERE ERE NO LONGER / SIGHT GLASS IS TH ROPER SERVICIN UNDETECTED. BELL 407 NSPECTION FOUND TO BE UNSERVIC BOEING 717200 SELAGE SKIN BETT BOEING 727212 D 6C-CHECK, COF 0 1073 BETWEEN S ND OUT CORROSI BOEING 7372X6C AT TRACK AT STA AT TRACK IAW SR	ENCE OF THE ALIGNED. THIS HE ONLY MEAI G OF THE TRA ID PITTING ON CEABLE. WEEN BS 848- WEEN BS 848- RROSION WAS S-12L AND S-15 ON, THE PENE 663 TO 727 AN	INDICATOR. THE HG S CONDITION WOUL NS TO DETERMINE ANSMISSION PRESE BELL NOUTPUT SHAFT AN 858, L28L TO 28R. F FOUND ON AFT EN 5L (DIMENSIONS OF ETRATION DEPTH W	DLES IN THE LEVEL I D NOT ALLOW OIL T THE OIL LEVEL IN TH SNTS A POTENTIAL F SHAFT 407040416103 BOUT 4 INCHES INBE SKIN REPAIRED ON FASI V BEAR STRAP BAC1505100617 ITRY DOOR CUTOUT CORROSION AREA (AS OVER LIMIT IAW SEAT TRACK	MARKING COATING AND O DRAIN FROM THE HE MAIN ROTOR FOR SERIOUS CORRODED T/R GB OUTPUT D FROM END OF SHAFT. CORRODED ZONE 100 VO 22109, NR 35471. CORRODED ZONE 800 BEAR STRAP AT 8.750 × 2.250 AND 7.000 SRM 53-30-1, PAGE 2C. CORRODED ZONE 200

CORROSION ON FLOORBEAM AT STA 727 AND RBL 24 TO 36. REMOVED CORROSION, FLOORBEAM FOUND TO BE OUT OF LIMITS, FABRICATED REPAIR STRAP AND INSTALLED IAW CURRENT SRM.

7AHR2012040600003	BOEING		RUB STRIP	GOUGED
4/6/2012	7372X6C			LT WING
	WING FLAP SUPPORT FITTING F NSTALLED STRIP IAW SRM.	RUB STRIP IS GOUG	ED. REMOVED RUB	STRIP, FABRICATED
7AHR201204062249	BOEING		RETAINER SEAL	CORRODED
4/6/2012	7372X6C			ZONE 500
	2 L/E SLAT LOWER RUB SEAL R ETAINER, FABRICATED REPAIR			
Z6WR20120301002	BOEING	BOEING	RING	WORN
3/1/2012	737724	737700	315A22225	THRUST REVERSER
HOLE SHOULD BE .3 CT THE NUT SIDE. THE NUT SIDE. THE NUT SIDE. THE LOCATING HOLE CT	CADE RING HAS EXTENSIVE WI 7503754. ACTUAL IS ELONGAT HE 315A2402-5 LATCH BEAM HA THE CASCADE RING. HOLE IS E MAGE ON THE LOCATING FAST DIA OF HOLE.	ED TO APPROX .62 S A CORRESPONDII LONGATED OUT TC	10 WITH HEAVY WEA NG ELONGATED HOL) .4950, SHOULD BE .	AR/MISSING MATERIAL LE CT THE AFT 37503754. ADDITIONAL
Z6WR20120302003	BOEING	BOEING	PANEL	DELAMINATED
3/2/2012	737724	737700	315A210141	THRUST REVERSER
(PERF SKIN TO CORE WAS DISCOVERED T	3 FIG 35 ITEM 40B. THE 315A210 E) THAT MEASURES 1.5 X 24.5". HAT THE PERF SKIN WAS PERF PS GROWING AND NOW MEASU	AFTER REMOVING	THE DISBONDED PO	RTION OF THE SKIN IT
3POR201204300003	BOEING		STRUCTURE	MISREPAIRED
4/30/2012	747428			
INCORRECT REPAIR	, INCORRECT FASTENERS.			
3POR201204290001	BOEING		SKIN	MISREPAIRED
4/29/2012	747428			BS 1795
AFT FUSELAGE SKIN	, BS 1795, S48L, MISREPAIRED			
3POR201204300002	BOEING		SKIN	MISREPAIRED
4/30/2012	747428			BS 2320
INCORRECT REPAIR	OF FUSEALAGE SKIN DAMAGE.			
FOTR2107117579	BOEING		FRAME	DENTED
4/20/2012	7572Q8			ZONE 100
	COMPARTMENT HAS DENTED F AS, FABRICATED REPAIR "J" DO			
ABXR2012043000047	BOEING		BRACKET	CRACKED
4/30/2012	767205		344T0522	ZONE 500
DURING C INSPECTION BRACKET IAW SRM.	ON, FOUND LT WING FUEL FILL	LINE BRACKET CRA	CKED ABOVE STRIN	IGER 5 WS 665. R & R
ABXR2012043000048	BOEING		SHEAR TIE	CORRODED

4/30/2012	767205			140T2102536	ZONE 100
DURING C CHECK, F	OUND SHEAR TIE	AT FS 1087, S	TR 33 & 34 CORRC	DED. R & R SHEAR 1	TE IAW SRM AND DWG.
ABXR2012043000049	BOEING			SKIN	CRACKED
4/30/2012	767205				RT ELEVATOR
DURING C-CHECK FC 59698-MR.	OUND RT INBD ELI	EVATOR LOWI	ER OTBD L/E CRAC	KED. REPAIRED IAW	/ SRM AND REA B655-
ABXR2012043000046	BOEING			FITTING	GOUGED
4/30/2012	767205			112T7042	ZONE 600
DURING C-CHECK, F B651-59769-MR.	OUND RT WING B	ACKUP FITTIN	G BETWEEN RIBS	8 7 9 GOUGED WS 3	94. REPAIRED IAW REA
ABXR2012043000043	BOEING			FITTING	GOUGED
4/30/2012	767205			112T7042	LT WING
DURING C-CHECK, F REPAIRED IAW REA		ACKUP FITTIN	G BETWEEN RIB 8	& 9 HAS TOOLING M	ARKS AT WS 394.
ABXR2012043000044	BOEING			SHIM	MIGRATED
4/30/2012	767205			112T50861	ZONE 500
DURING C CHECK FO 19. REPAIRED IAW R			G AT RIB 8 HAS SHI	M MIGRATING BETW	EEN STRINGERS 18 &
ABXR2012043000045	BOEING	PWA		FITTING	GOUGED
4/30/2012	767205	JT9D7R4D		112T5086	ZONE 600
DURING C-CHECK FO REA B657-59769-MR.	OUND RT WING RI	B 8 BACKUP F	ITTING HAS TOOLI	NG MARKS AT WS 3	75. REPAIRED IAW WITH
ABXA20120201185	BOEING			SHEAR TIE	CORRODED
2/1/2012	767232			140T2102207	FUSELAGE
SHEAR TIE CORROD A/W/G.	ED. REMOVED AN	ID REPLACED	SHEAR TIE PER BO	DEING DWG 140T210	2 & SRM 51-40-02,
AMCR2012042504	BOMBDR	HNYWL	AUXILEC	BEARING	SEIZED
4/25/2012	BD1001A10	AS90711A			RT GENERATOR
GENERATOR REAR E		-			IEARED AND
2012FA0000244	CESSNA	CONT		SEAL	DETERIORATED
3/8/2012	150F	O200A		AEC539840	ENG CYLINDER
FOUR NEW CYLINDE					
	CTED. DURING TH S. THE SEALS AND	E INSPECTION	I THE PUSHROD T	UBE SEAL WERE FO	AK IN FLIGHT THE UND TO HAVE LARGE OM MFG. THE TT ON THE
CRACKS AND SPLITS	CTED. DURING TH S. THE SEALS AND	E INSPECTION	I THE PUSHROD T	UBE SEAL WERE FO	UND TO HAVE LARGE
CRACKS AND SPLITS SEALS IS LESS THAN	CTED. DURING TH S. THE SEALS AND I 2 HRS.	E INSPECTION	I THE PUSHROD T	UBE SEAL WERE FO TH THE CYL KITS FRO	UND TO HAVE LARGE OM MFG. THE TT ON THE
CRACKS AND SPLITS SEALS IS LESS THAN 2012FA0000247	CTED. DURING TH S. THE SEALS AND I 2 HRS. CESSNA 150G 38S SPARK PLUGS	E INSPECTION OGASKETS WE	N THE PUSHROD T ERE SUPPLIED WIT	UBE SEAL WERE FO TH THE CYL KITS FRO SPARK PLUG REM38S	UND TO HAVE LARGE OM MFG. THE TT ON THE FAILED
CRACKS AND SPLITS SEALS IS LESS THAN 2012FA0000247 3/6/2012 TESTED EIGHT REM3	CTED. DURING TH S. THE SEALS AND I 2 HRS. CESSNA 150G 38S SPARK PLUGS	E INSPECTION OGASKETS WE	N THE PUSHROD T ERE SUPPLIED WIT	UBE SEAL WERE FO TH THE CYL KITS FRO SPARK PLUG REM38S	UND TO HAVE LARGE OM MFG. THE TT ON THE FAILED

FUEL LEAK OCCURED AT RIGHT AFT FUEL TANK OUTLET FITTING FUEL LINE FLARED FITTING JOINT. FUEL LINE WAS MANUFACTURED WITH A DEFECTIVE SLEEVE WITH A SHOULDER OF .045" AS OPPOSED TO THE STANDARD DIMMENSION OF .170. FOUND BACK OF FLARE CUT INTO AND NO LONGER ABLE TO CREATE A SEAL ON FLARE FACE BECAUSE THE AN818-6D NUT BOTTOMED OUT ON THE FUEL TANK OUTLET NIPPLE FITTING.

2012FA0000211	CESSNA	LYC	PAWL	LOOSE
2/28/2012	172N	O320D2G		MAGNETO
REMOVED LEFT MAC THE PAWL WAS BEA METAL PASTE ON EN WAS ON THE SPACE	GNETO AND FOUN TING THE EDGE (NGINE TO MAG SF R BUT THAT THE	TURN BUT IMPULSE COUPLING (ID THAT THE RIVET HOLDING ON OF THE MAGNETO, DESTROYING PACER AND WASHER THAT IS BET SPRING WAS MISSING. REMOVED S WAS THE RIVET THAT HOLDS T	E OF THE PAWLS HA THE LIP. THERE WAS WEEN THE PAWL AN D FILTER AND FOUND	D BROKEN OFF AND ALOT OF AN OIL ID IMPULSE COUPLING

BQVD2012041600000	CESSNA	CESSNA	SWITCH	OVERHEATED
4/16/2012	172P		S21604	INSTRUMENT PANEL

ON CLIMB-OUT, CREW NOTICED SMOKE EMANATING FROM ABOVE AND BELOW INSTRUMENT PANEL. ATC WAS NOTIFIED, THE MASTER SWITCH WAS TURNED OFF, AND THEY RETURNED TO DEPARTURE. FIRE/ RESCUE PERSONNEL VERIFIED THERE WAS NO ACTIVE FIRE. THE ACFT WAS TURNED OVER TO MX FOR INSP AND REPAIR. MX PERSONNEL DETERMINED THAT THE PROBLEM WAS WITH THE LANDING LIGHT SWITCH. THE LANDING LIGHT SWITCH WAS REPLACED WITH A CURRENT PART NUMBERED SWITCH. AN OPS CHECK WAS PERFORMED WITH NO DIFFICULTIES NOTED.

2012FA0000254	CESSNA	LYC		RUDDER BAR	CRACKED
5/2/2012	172RG	O360F1A6		24670012	ZONE 100
RUDDER BAR WELD ASSY, RT FOOT BRAKE & RUDDER PEDAL. THE PART CRACKED CIRCUMFERENTIALLY AT THE APPROXIMATE MIDPOINT OF THE ASSY ALONG SIDE THE GEAR TEETH THAT ALLOW THIS PART TO ENGAGE THE WELD ASSY FOR THE LT BRAKE & RUDDER PEDALS.					
2012FA0000287	CESSNA	LYC		TIRE	DEFLATED
5/7/2012	172S	IO360L2A		505C665	ZONE 700
NOSE TIRE DEFLATED ON LANDING.					
2012FA0000288	CESSNA	LYC		STRUT	FAULTED
5/8/2012	172S	IO360L2A		07436311	NLG
				CONECTING PINS FO	R INNER STRUT TUBE WAS INSTALLED.
2012FA0000248	CESSNA	CONT		SPARK PLUG	FAILED
3/5/2012	180J	O470*		RHM40E	RESISTOR
PLUGS THAT WAS I INSTALLATION, THE	NSTALLED 12 MON PLUG FAILED TH	ITHS AGO DURIN E INTERNAL RES	IG THE LAST ANN ISTANCE CHECK:	UAL AND NOW HAS 1	TINUITY THROUGH THE
2012FA0000270	CESSNA	CONT	SLICK	CONTACT	LOOSE
3/30/2012	182D	O470L			MAGNETO
PILOT REPORTED A HIGH MAGNETO DROP. UPON INSPECTION THE LT MAGNETO WOULD NOT TIME CONSISTENTLY. REMOVED AND DISASSEMBLED THE MAGNETO AND FOUND 1 SIDE OF THE CONTACT POINT TO BE VERY LOOSE.					
2012FA0000215	CESSNA			BULKHEAD	CRACKED
4/20/2012	182T			0713787110713787	ZONE 100

CRACKS FOUND IN FLANGE OF BOTH THE LEFT AND RIGHT FUSELAGE BULKHEADS AT STATION 17. CRACKS

RADIATING FROM UPPER BOLT HOLE WHERE FUELING STEP ATTACHES. BOLT HOLE IS TOO CLOSE TO BEND RADIUS OF BULKHEAD, CAUSING DISTRESS WHEN BOLT IS TIGHTENED. SECOND INSTANCE FOUND IN "RESTART" AIRCRAFT.

2012FA0000216 CESSNA BULKHEAD CRACKED 4/20/2012 182T 0713787110713787 ZONE 100 CRACKS FOUND IN FLANGE OF BOTH THE LT AND RT FUSELAGE BULKHEAD AT STATION 17. CRACKS RADIATING FROM THE UPPER BOLT HOLE WHERE THE FUELING STEP ATTACHES. BOLT HOLE IS TOO CLOSE TO BEND RADIUS OF BULKHEAD, CAUSING DISTRESS WHEN BOLT IS TIGHTENED. 2012FA0000213 CESSNA TRANSISTOR MISINSTALLED 208B 4/19/2012 2N6576 DIMMER DURING LIGHTING SYS INSPECTION, FOUND PANEL LIGHTS FOR CIRCUIT BREAKERS & SWITCHES INOPERATIVE. TROUBLESHOOTING FOUND A DEFECTIVE DRIVE TRANSISTOR IN DIMMER CIRCUIT. DRIVE TRANSISTOR INSPECTED & TESTED. TRANSISTOR FOUND TO HAVE A BASE TO EMITTER OPEN. FOUND ALL TRANSISTORS TO BE IMPROPERLY MOUNTED ON HEATSINK. INSULATORS PREVENTED DRIVE TRANSISTOR FROM MOUNTING ON HEAT SINK PROPERLY CREATING EXCESSIVE HEAT BUILDUP IN TRANSISTOR. REPAIRED AND CIRCUITS WERE TESTED & HEAT CONDUCTION TO HEAT SINK VERIFIED. 2012FA0000281 CESSNA CONTROL CABLE FRAYED 5/7/2012 208B 2660001105 TE FLAPS DURING ROUTING INSPECTION, FOUND FLAP CABLE WHICH RUNS FROM THE INNER BELLCRANCK TO THE OUTER END OF THE FLAP, FRAYED AT THE CONNECTION TO THE FAIRLEAD. CABLE WAS BROKEN FOR ABOUT 30 PERCENT. CABLE WAS ORIGINAL. FROM SLIP MARK THE CABLE HAD NOT SLIPPED. **PWA** VENT LINE M36R20120424001 CESSNA CORRODED 4/24/2012 208B PT6A114A S5114S51148 ENGINE IN COMPLIANCE OF A FLEET CAMPAIGN DIRECTIVE DURING AN ENGINE INSPECTION, A MECHANIC CHECKING THE VENT LINE OF THE OVERBOARD ENGINE BREATHER, FOUND THE RUBBER SECTION SWOLLEN INTERNALLY. LEFT UNCHECKED TO THE POINT OF OBSTRUCTION, IT WOULD CAUSE THE ENGINE OF THIS ACFT TO START CONSUMING LARGE AMOUNTS OF ENGINE OIL AND COMPROMISE THE ENGINE BEARING SEALS RESULTING IN EXPENSIVE ENGINE REPAIRS. THE FLEET CAMPAIGN DIRECTIVE MENTIONED ABOVE WAS GENERATED BY THIS ACFT OPERATOR TO ADDRESS THE CONDITION OF THESE AGING HOSE SECTIONS. 2012FA0000217 CYLINDER CESSNA CONT CRACKED 3/6/2012 340A **TSIO520N** AEC631397 INTAKE SEAT IN CRUISE, AIRCRAFT EXPERIENCED VIBRATION. CHECKED COMPRESSION ON RT ENGINE, FOUND NR 3 CYLINDER HAD 0/80. REMOVED CYLINDER AND FOUND CRACKED FROM SPARK PLUG HOLE TO INTAKE SEAT. INSTALLED NEW CYLINDER AND GROUND RAN. ACFT WAS RETURNED TO SERVICE NO FURTHER ISSUES. NO INDICATION AS TO THE CAUSE OR RECOMMENDATIONS AS TO HOW TO PREVENT REOCCURRANCE. 2012FA0000276 CESSNA LANDING GEAR COLLAPSED 3/8/2012 401B NOSE ACFT LANDED & NLG COLLAPSED. NLG REPORTED TO HAVE BEEN OPERATED FOR A PERIOD OF TIME WITH A DEFLATED NOSE STRUT. STRUT SERVICED. ALSO REPORTED NLG HAD BEEN SUBJECT TO ROUGH OPERATION. OPERATED IN & OUT OF A GRASS AIRSTRIPS. NLG EXTENDED & RETRACTED USING ELECTRIC & MANUAL SYS. BOTH TIMES GEAR WOULD COME WITHIN .5" OF FULL DOWN TRAVEL. DETERMINED THAT EXTENSIVE DAMAGE HAD OCCURRED TO THE NLG EXTENSION SYS FROM COLLAPSE. APPEARED THAT THERE WAS EXCESSIVE PLAY IN ASSOCIATED RODS, BELL CRANKS, & BUSHINGS IN NLG DOWN SYS. DUE TO EXCESSIVE WEAR. IT APPEARS AS THOUGH DOWN SYS BECAME WORN & OUT OF RIG, PREVENTING FULL DOWN ACTUATION OF NLG ACTUATING ROD. NLG SYS ALSO APPEARED TO BE DRY OF LUBRICATION.

<u>GNMA20120418</u>	CESSNA	SPAR	CRACKED
4/18/2012	414A	50111482	ZONE 100

DURING ROUTINE INSPECTION OF ACFT, 2 CRACKS WERE FOUND ON THE TOP, FORWARD MAIN SPAR WEB AT FS 154.50. AREA OF CRACK IS A TYPICAL AREA FOR CRACKS IAW SRM. REPAIR PROCEDURES OF FRONT SPAR WEB IS OUTLINED IN THE SRM.

GNMA6640C021912	CESSNA	CONT	ENGINE	MAKING METAL
2/19/2012	414A	TSIO520NB	TSIO520NB	LEFT
AIRCRAFT LEFT ENG	INE WAS SHOWIN	IG LOW OIL PRESSURE 10 MINUTE	ES OUT OF AIRPORT	, ALL OTHER ENGINE
GAUGES READ NOR	MAL. PILOT STAR	FED LEFT ENGINE FOR DEPARTUR	RE BACK, BUT LEFT	ENGINE OIL PRESSURE
		CHOT ENICINE AND EOLIND METAL		TED NO ENDTHED

GAUGE DID NOT RESPOND. TROUBLESHOT ENGINE AND FOUND METAL SHAVING IN OIL FILTER, NO FURTHER ACTION HAS BEEN TAKEN TO DETERMINE CAUSE OF ENGINE WEAR. AIRCRAFT HAS BEEN GROUNDED FOR ENGINE REPLACEMENT.

2012FA0000209	CESSNA	CONT	CYLINDER	CRACKED
2/28/2012	414A	TSIO520NB		ENGINE
		S AT O/H, CHANGED NR 1, 3, 5 C S FOR CRACKS IN THE INTAKE F		KS IN FIN ON INTAKE A
2012FA0000210	CESSNA	CONT	CYLINDER HEAD	FAILED
1/28/2011	414A	TSIO520NB		ENGINE
	SING MANIFOLD P	UE TO NR 2 CYLINDER HEAD BL RESSURE TO DROP AND FUEL A		
012FA0000246	CESSNA	CONT	GASKET	FAILED
8/22/2012	421C	GTSIO520*	635823	OIL CAP
GASKET MATERIAL DUT OF PLACE AND GASKETS AT THE 10 WITHIN 150 HRS TIS DISPLACED BY THE	LACKS STABILITY WINDS UP IN THE 00 HUR MARK ON WAS TORN. THE SQUEEZE OF THE	HAVE REPLACED THE GASKET FOR THE TWISTING FORCE IT IS WINGS OF THE CAP. THIS CAU THE ENGINE WHEN I MADE COM MATING SURFACES ARE SMOOT CAP PRESSURE TO FORCE TH THE GASKET MATERIALIS ALSO	S SUBJECTED TO. THE ISES AN OIL SEEP. TH IMENTS TO THEM. TH TH. THE GASKET MAT IE GASKET INTO THE \	E MATERIAL SQUEEZES E FACTORY SENT 3 EA E 2ND ONE CHANGED ERIAL SEEMS TO BE WINGS/FINGER HOLDS
GNMA6640C032712	CESSNA	PWA	ENGINE	OVERTEMP
8/27/2012	425	PT6A112		RIGHT
ON THE INTER-TUR PRECAUTIONARY A ACFT LANDED SAFE DIL SCREEN AND C	BINE TEMPERATU CTION AND RETU ELY. A BORESCOP HIP DETECTOR W	E RT ENGINE WAS ABRUPT AND RE AND A DECREASE IN ENGINE RNED TO DEPARTURE AIRPORT E INSP WAS PERFORMED ON EN ERE INSPECTED AND NO METAL BEING EVALUATED TO DETERM	E TORQUE. ENGINE W WHICH WAS WITHIN NGINE AND ALL VISUA PARTICLES WERE FO MINE MX PROCEDURE	AS SHUTDOWN AS A 10 MINUTES OF FLIGH ⁻ IL INSP WERE GOOD. DUND. ENGINE S.
2012FA0000237	CESSNA		PRESSURE SWITC	^{CH} SHORTED
/25/2012	550		6607A745	THRUST REVERSER
		T ILLUMINATED CONTINUOUSLY	WITH ENGINES SHU	
		WITCH. INSTALLING A NEW SWI		

IAW MM 34-23-01. OPS CHECK GOOD. INDICATOR REPAIRED. WORK COMPLIED WITH.

DXTR20120424001	CESSNA		BRACKET	CRACKED
4/24/2012	560XL		66611542	ZONE 100
		AT AFT CANTED BULKHEAD IS C IAW SRM 51-40-03 AND MM 22-12		VET LINE. R & R
DXTR20120424002	CESSNA		LINE	CHAFED
4/24/2012	560XL		651710577	LT BRAKE
		RT RUDDER PEDAL IS CHAFED D RT RUDDER PEDAL IAW MM 20-1		AL CONTACT. R & R LT
2012FA0000273	CESSNA		ARM	WORN
3/13/2012	680CE		696400015	FS 303.9
UPON RT CABIN FLOOR PANEL REMOVAL (162ET) IT WAS OBSERVED THAT THERE WAS SOME FRETTING MATERIAL ON THE INSULATION BAGS AND THE SURROUNDING AREA. FURTHER INVESTIGATION REVEALED THAT THE RT (PN 6964000-16) AND LEFT (PN 6964000-15) ARMS THAT CONNECT THE BRAKE METERING VALVE TO THE BRAKE CABLE CLEVISES WERE SEVERELY WORN. THE BOLTS AND CLEVISES AT THE ATTACH POINTS ARE WEARING INTO THE BRAKE METERING VALVE ARMS. IT LOOKS LIKE THE BUSHINGS (SPACER PN NAS43DD4-16FC) WERE NEVER INSTALLED. RECOMMEND DURING A 3AEMERGENCY BATTERY SERVICE OR AN INSPECTION THAT THIS PANEL (162ET) IS REMOVED, THAT THE ARMS BE INSPECTED FOR WEAR AND THAT THE SPACER IS INSTALLED.				
2012FA0000274	CESSNA		ARM	WORN
3/13/2012	680CE		696400016	FS303.9
UPON RT CABIN FLOOR PANEL REMOVAL (162ET) IT WAS OBSERVED THAT THERE WAS SOME FRETTING MATERIAL ON THE INSULATION BAGS AND THE SURROUNDING AREA. FURTHER INVESTIGATION REVEALED THAT THE RT (PN 6964000-16) AND LEFT (PN 6964000-15) ARMS THAT CONNECT THE BRAKE METERING VALVE TO THE BRAKE CABLE CLEVISES WERE SEVERELY WORN. THE BOLTS AND CLEVISES AT THE ATTACH POINTS ARE WEARING INTO THE BRAKE METERING VALVE ARMS. IT LOOKS LIKE THE BUSHINGS (SPACER PN NAS43DD4-16FC) WERE NEVER INSTALLED. RECOMMEND DURING A 3AEMERGENCY BATTERY SERVICE OR AN INSPECTION THAT THIS PANEL (162ET) IS REMOVED, THAT THE ARMS BE INSPECTED FOR WEAR AND THAT THE SPACER IS INSTALLED.				
2012FA0000235	CESSNA	CONT	CYLINDER HEAD	CRACKED
4/24/2012	A188B	IO550D	AEC631397	ENGINE
HAS BEEN FLOWN 40 CRACKED AND LEAK VISUAL INSP OF CYL	04.3HRS. PILOT HA ING DURING COM INDERS REVIELEE	CKED. ALL OF THE CYLINDERS W AD LOSE OF POWER AND RETUR PRESSION CHECK. REMAING CY D THAT 5 OF THE 6 WERE CRACK 2, 52119-24, 52119-25	NED TO AIRPORT. 2 (LINDERS COMPRESS	CYLINDERS FOUND SION CHECKED OK.
2012FA0000220	CESSNA		STARTER	BURNED
2/14/2012	T210N		PM2407	ENGINE
PILOT REPORTED THAT ON LANDING, ACFT LOST ALL ELECTRICAL POWER. PERFORMED INSPECTION AND TROUBLESHOOTING. FOUND BATTERY, STARTER AND STARTER RELAY AT FAULT. ACFT HAD A BURNED WIRE, ELECTRICAL ODOR. FOUND THAT THE STARTER STAYED ENGAGED AND IT ACTED LIKE AN ELECTRICAL GENERATOR OVERCHARGING THE ELECTRICAL SYS CAUSING THE BATTERY TO FAIL. POSSIBLE CAUSE OF THE PROBLEM IS THE STARTER RELAY FAILED TO OPEN ONCE THE ENGINE STARTED.				
2012FA0000221	CESSNA		BATTERY	DAMAGED
2/14/2012	T210N		RG2411M	
TROUBLESHOOTING ELECTRICAL ODOR.	. FOUND BATTER FOUND THAT THE	ACFT LOST ALL ELECTRICAL PO Y, STARTER AND STARTER RELA STARTER STAYED ENGAGED AN ECTRICAL SYSTEM CAUSING THI	Y AT FAULT. ACFT HA	AD A BURNED WIRE, ELECTRICAL

THE PROBLEM IS THE STARTER RELAY FAILED TO OPEN ONCE THE ENGINE STARTED.

2012FA0000222	CESSNA			CONTACTOR	SHORTED
2/14/2012	T210N			S1577A1	FIREWALL
PILOT REPORTED TH TROUBLESHOOTING ELECTRICAL ODOR. GENERATOR OVERO THE PROBLEM IS TH	6. FOUND BATTER FOUND THAT THE CHARGING THE EL	Y, STARTER A STARTER ST ECTRICAL SY	ND STARTER RELA AYED ENGAGED AN STEM CAUSING TH	Y AT FAULT. ACFT H, ND IT ACTED LIKE AN E BATTERY TO FAIL.	AD A BURNED WIRE,
2012FA0000275	CESSNA	CONT		CYLINDER HEAD	SEPARATED
3/27/2012	U206D	IO520F		AEC631397	NR 3 CYLINDER
JUST AFTER REACHING CRUISING ATTITUDE OF 2500 FT MSL, THE ENGINE BEGAN PRODUCING A LOUD NOISE, ACCOMPANIED BY LOSS OF POWER AND EXTREME VIBRATION. A SAFE LANDING WAS ACCOMPLISHED, WHERE IT WAS DETERMINED THT THE CYLINDER HEAD ON THE NR3 CYLINDER HAD SEPARATED AT THE TOP END OF THE CYLINDER BARREL. NO OTHER SIGNIFICANT DAMAGE WAS NOTED. CAUSE OF THE SEPARATION IS UNDETERMINED AT THIS TIME.					
2012FA0000179	CIRRUS			RELAY	FAULTY
4/4/2012	SR20			V23234A0004X051	TE FLAPS
FLAPS STUCK IN DO ENCOUNTERED ON		ONDITION TRA	CED TO A FAULTY F	RELAY. THIS IS A CHF	RONIC PROBLEM
2012FA0000204	CIRRUS	CONT		SPARK PLUG	CRACKED
2/24/2012	SR22	10550N		RHB32S	ENGINE
REPLACED ALL FINE PLUGS HAD CRACKE					E PLUGS. TWO SPARK
2012FA0000290	CIRRUS	CONT	CONT	SEAL	LEAKING
5/8/2012	SR22	10550N			FUEL CONTROL
FUEL LEAKING PAST INSTALLED. WHEN E LEAKAGE RATE OF F	LECTRIC FUEL PL	JMP OPERATE	D ON BOOST (LOW		
2012FA0000268	CIRRUS	CONT		ATTACH BRACKET	CRACKED
4/5/2012	SR22	10550N		646404	NR2 ALTERNATOR
INVESTIGATING A NI POINT CRACKED TH FROM BILLET ALLUM	RU. SUSPECT DEF	ECT CASTING	G OF PART. RECOM		ERNATOR ATTACH E TO MAKE THE PART
2012FA0000269	CIRRUS	CONT		ATTACH BRACKET	CRACKED
4/5/2012	SR22	10550N		646404	NR2 ALTERNATOR
ON 100 HR INSPECTION, FOUND CRACK ON LOWER NR 2 ALTERNATOR ATTACH POINT. SUSPECT DEFECT CASTING OF PART. RECOMENDATION WOULD BE TO MAKE THE PART FROM BILLET ALUMINUM.					
2012FA0000203	CNDAIR			CONTROLLER	FAILED
2/14/2012	CL6002A12			820465	ADG DEPLOY
AIRCRAFT ON RAMP SHOULD NOT HAVE FAILED. RECOMMEN INSIDE BOX, UNABLE	HAPPENED UNLES	SS ACFT IS IN NT TO CUSTO	THE AIR. TROUBLE	SHOOTING FOUND T	
2012FA0000278	CNDAIR	GE		BRACKET	CRACKED
3/28/2012	CL6002B16	CF343B		22858220805	THRUST REVERSERS

THRUST REVERSER WOULD NOT INDICATE EXTENDED. FOUND BRACKET THAT HOLDS THE RETRACT AND EXTEND SWITCHES TO BE CRACKED AROUND THE EXTEND SWITCH WHICH ALLOWED THE SWITCH TO MOVE WHEN THE THRUST REVERSER CONTACTED IT DURING EXTENSION. CAUSE APPEARS TO BE CRACKING DUE TO REPEATED CONTACT BETWEEN THRUST REVERSER AND SWITCH ON AN ALUMINUM BRACKET. REPLACED BRACKET.

N6WA2012050302	CNDAIR	BULB	BURNED OUT
5/3/2012	CL6002C10		EMERGENCY LIGHT
EMERGENCY LIGHT S	ECOND TO LAST ON CEILING IS OUT. REPLACED E	BULB.	
V0XR20120508J0034	CNDAIR	STEP	WORN
5/7/2012	CL6002C10	601R316709	PAX DOOR
PASSENGER DOOR T 11-04. (REF. W/O 8007	OP STEP SPONGY IN THE CENTER AREA. R & R PA 2, W/C 8020)	SSENGER DOOR TO	P STEP IAW AMM 52-
V0XR20120508J0035	CNDAIR	CABLE	DAMAGED
5/7/2012	CL6002C10	601R3181273	PAX DOOR
	LOCATED IN PASSENGER DOOR DAMAGED BEYO DE BREAKER CABLE IAW AMM 52-11-15.	ND SERVICEABLE LIN	/ITS. R & R
V0XD20120418J0004	CNDAIR	THRESHOLD	CORRODED
4/16/2012	CL6002C10	5H670321723	ZONE 800
	LL CORRODED BEYOND SERVICEABLE LIMITS FRO L IAW SRM 51-42-06, 51-23-00.	OM FS 280.00 TO FS 3	19.70. R & R SERVICE
V0XD2012041800005	CNDAIR	THRESHOLD	CORRODED
4/16/2012	CL6002C10	5H670318215	ZONE 800
	ILL/THRESHOLD CORRODED BEYOND SERVICEAB ILL IAW SRM 51-42-00, 51-42-06.	LE LIMITS, FS 310.00,	R & R PASSENGER
V0XR20120508J0028	CNDAIR	FLOORBEAM	CORRODED
5/7/2012	CL6002C10	CC67034175	ZONE 100
ORIGINAL THICKNESS	CORRODED BEYOND SERVICEABLE LIMITS. REMOV S 0.040 ", MATERIAL REMAINING AFTER CORROSIO EPAIR WITHIN SERVICEABLE LIMITS, TREATED AND	N REMOVAL 0.038 ", I	MATERIAL THICKNESS
V0XR20120508J0029	CNDAIR	FLOORBEAM	CORRODED
5/7/2012	CL6002C10	CC670332929	BS 279
FS 279 FLOORBEAM (IAW SRM 51-42-13, 51	CORRODED AT RBL 9 TO LBL 9 BEYOND SERVICEA -42-21.	BLE LIMITS. INSTALL	ED NEW FLOORBEAM
V0XR20120508J0030	CNDAIR	ANGLE	CORRODED
5/7/2012	CL6002C10	SH670318403	BS 280
	(CLOSING ANGLE) AT LBL 9, BS 280.00, WL 72.50 C OST (CLOSING ANGLE), TREATED, PRIMED AND PA		
V0XR20120508J0031	CNDAIR	ANGLE	CORRODED
5/7/2012	CL6002C10	SH670318216	ZONE 200
	HRESHOLD BOTTOM ANGLE AFT CAP CORRODED THRESHOLD LOWER ANGLE AFT CAP IAW SRM 51		BLE LIMITS, FS 349, R &
V0XR20120508J0032	CNDAIR	ANGLE	CORRODED

5/7/2012	CL6002C10	SH670318216	ZONE 200	
	THRESHOLD BOTTOM ANGLE FWD CAP CORRODE OR THRESHOLD LOWER ANGLE FWD CAP IAW SRI		ABLE LIMITS, FS 349. R	
V0XR20120508J0033	CNDAIR	SEAT TRACK	CORRODED	
5/7/2012	CL6002C10	SH670374113	BS 785.15	
	T FS 785.15, AFT OF OVERWING EXIT DOOR, CORR DED SEAT TRACK, BLENDED 0.018" WITHIN THE M			
V0XR05082012J0028	CNDAIR	FLOORBEAM	CORRODED	
5/7/2012	CL6002C10	CC67034175	ZONE 100	
MATERIAL REMAININ	CORRODED. REMOVED CORROSION IAW REO 670 IG AFTER CORROSION REMOVAL 0.038 ", MATERIA E LIMITS, TREATED AND PRIMED REPAIR AREA IAV	L THICKNESS REMAI		
V0XR05082012J0030	CNDAIR	ANGLE	CORRODED	
5/7/2012	CL6002C10	SH670318403	ZONE 100	
	T (CLOSING ANGLE) AT LBL9, BS 280, WL 72.50 COP IST (CLOSING ANGLE), TREATED, PRIMED, & PAINT			
V0XR20120422J0027	CNDAIR	FLOOR SUPPORT	CRACKED	
4/19/2012	CL6002C10	SH67033332	ZONE 100	
FLOOR SUPPORT ANGLE AT BS 310 TO 333, FOUND CRACKED. FABRICATED AND INSTALLED REPLACEMENT FLOOR SUPPORT IAW SRM 51-25-06 AND DG SH670-33332.				
V0XR20120422J0022	CNDAIR	ANGLE	CORRODED	
4/19/2012	CL6002C10	SH670318255	PAX DOOR	
CLEANED CORROSIC	LOWER THRESHOLD KICK ANGLE CORRODED BEY ON FROM KICK ANGLE,.004" MATERIAL REMOVED, D WITH TOPCOAT LAW SRM 53-21-23, 51-21-06,51-2 39, W/C 1070)	PART WITHIN LIMITS	, TREATED,	
V0XR20120422J0023	CNDAIR	BULKHEAD WEB	CORRODED	
4/19/2012	CL6002C10	CC670341707S	ZONE 100	
	WEB CORRODED BEYOUND SERVICEABLE LIMITS -42-21, 51-23-00, REO670-53-11-052.	S. R & R FS 280 LT BU	JLHEAD WEB LAW SRM	
V0XR20120422J0024	CNDAIR	FLOORBEAM	CORRODED	
4/19/2012	CL6002C10	CC670341757S	ZONE 100	
	CORRODED BEYOND SERVICEABLE LIMITS. R & R 1-046 AND SRM 51-42-20, 51-42-06.	FS 280 FLOORBEAM	, LAW REO 670-53-11-	
V0XR20120422J0025	CNDAIR	SILL	CORRODED	
4/19/2012	CL6002C10	SH670321713	ZONE 100	
FS 280, SILL CORROI 51-42-06.	DED BEYOND SERVICEABLE LIMITS. R & R SILL AN	D INSTALLED IAW SR	RM 51-40-11, 51-42-13,	
V0XR20120422J0026	CNDAIR	ANGLE	CORRODED	
4/19/2012	CL6002C10	CC670331993	ZONE 100	
	CEPTICLE ANGLE CORRODED BEYOND SERVICEA ED AND INSTALLED PROTECTIVE FINISH IAW SRM		ED AND CLEANED	

V0XR20120422J0028	CNDAIR		ANGLE	DEFORMED
4/19/2012	CL6002C10		SH670318403	ZONE 200
		ING PLATE DAMAGED BEYOND CLOSING PLATE IAW SRM 53-2 ⁻		
V0XR20120422J0029	CNDAIR		ANGLE	DAMAGED
4/19/2012	CL6002C10		SH670318214	ZONE 200
PASSENGER DOOR E		ED BEYOND SERVICEABLE LIMI	TS. R & R PASSENGE	R DOOR KICK ANGLE
V0XR20120422J0030	CNDAIR		ANGLE	DAMAGED
4/19/2012	CL6002C10		SH670318215	ZONE 200
		AMAGED BEYOND SERVICEABLE 1-23, 51-42-06. 51-40-11, AMM 51		NGER DOOR KICK
V0XR20120422J0031	CNDAIR		ANGLE	DAMAGED
4/19/2012	CL6002C10		SH670318259	ZONE 200
PASSENGER DOOR I CAP, IAW SRM 51-41-		D BEYOND SERVICEABLE LIMITS)-11.	S. R & R PASSENGER	DOOR KICK ANGLE MID
V0XR2012042700006	DHAV		SKIN	DENTED
4/27/2012	DHC8106		8714003	RT NACELLE
EDGE OF DOOR AND	8.25" FROM FORV	AT XN=72.0 AND ZN=1.0. DENT C WARD EDGE. DENT IS MEASURE 00-16 AND REPAIR DWG 8-71-88	D AT 0.015 DEEP AND	0.700 DIAMETER AND
2012FA0000245	DIAMON	CONT	TUBE	FAILED
3/22/2012	DA20C1	IO240B		NLG TIRE
ACFT LANDED AFTER A TRAINING MISSION. THE NOSE TIRE WENT FLAT ON OR DURING THE LANDING AND SUBSEQUENT ROLLOUT. THE ACFT WAS INSPECTED (NOSE TIRE AND WHEEL ASSY) AND IT WAS VERIFIED BY MX THAT THE NOSE TIRE WAS IN FACT DEFLATED. THE REPAIR EFFORTS BY MX CONSISTED OF A REPLACEMENT NOSE WHEEL/TIRE AND WHEEL ASSY PERFORMED. THE APPROPRIATE PAPERWORK WAS COMPLETED AND THE ACFT WAS RETURNED TO SERVICE. THE FINDING IN THIS MATTER REVEALED A SMALL HOLE IN THE SIDE OF THE TUBE WHICH APPEARS TO BE A MFG DEFECT. HAVE CONTQCTED OUR SUPPIERS TO MAKE THEM AWARE OF THIS PROBLEM SO WE CAN FIND A RESOLUTION.				
2012FA0000227	DIAMON		TUBE	MISMANUFACTURED
3/15/2012	DA40		G156006	TIRE
WHEEL ASSY. DEFEC	TIVE TIRE WHEEL	E TO MAINTAIN DIRECTIONAL CO L ASSY DISASSEMBLED AND A S D THAT THIS WAS A MANUFACTI	MALL PUNCTURE DIS	
ABXR2012042700042	DOUG		SKIN	DAMAGED
4/27/2012	DC932		591142465	ZONE 100
DENT AND GOUGE A SERVICE DWG SG09		AGE STATION 883 RT SIDE AT LO	ONGERON 21 RIGHT.	REPAIRED IAW
106B20120416001	EMB		UPLOCK	FAILED
4/16/2012	EMB135ER		23092900401	MLG
		DISAGREE MESSAGE AND RT ML XTENDED MLG AND RETURNED		

REVEALED A FAILED RT MLG UPLOCK ASSY. UPLOCK REPLACED AND TESTED IAW MM & ACFT APPROVED FOR RETURN TO SERVICE.

2012FA0000252	GRTLKS	LYC	SPAR	CRACKED
5/2/2012	2T1A2	AEIO360*	1010216321911	HORIZONTAL STAB
DISCOVERED ALONG	THE INBD RIVET	FTER REMOVING THE RT HORIZO LINE WHICH COVERED APPROX L STABILIZER WAS FOUND TO BE INE OF RIVETS.	70 DEGREES OF THE	TUBE
2012FA0000262	GULSTM		BOLT	LOOSE
2/28/2012	200		31B518201	FAN DISK
BOLT, PN 31B0162-01 HAD NOT BEEN REM ANY OBVIOUS DEFO	HAD COME LOOS OVED SINCE NEW RMATIONS ON OLI	PREFLIGHT INSPECTION THAT TH SE FROM THE TIE ROD. RECORDS . MX REPLACED BOLT AND LOCK D PARTS, PILOTS HAD NOT COMP S PRIOR TO THIS EVENT.	S SEARCH REVEALEI WASHER WITH NEW	D THAT THE FAN DISK / BUD DID NOT FIND
K5SR2012050123537	GULSTM		WIRE	CHAFED
5/1/2012	GIV			INVERTER
COMPARTMENT. TRO MANIFOLD AND WIRI GOING TO COMBINED CONNECTING SYS IN REPAIRED 60 HZ COU PREVENT FURTHER	DUBLESHOT WITH NG SPARKED. FOI D HYD MANIFOLD ISTRUCTION MANI NVERTER WIRE US CHAFING. PERFOI	HECK, NOTICED LARGE AMOUNT SYS PRESSURIZIED MOVED WIR UND 60HZ INVERTER WIRE HAD C ASSY LINE. REPAIRED HYD LINE UAL SOP6-01-05 BY INSTALLATIO SING ENVIRONMENTAL SPLICE A RMED HYD LEAK AND OPS CHECK K OF 60 HZ CONVERTER CHECKE	E BUNDLE NEAR CO CHAFED THRU THE H ASSY IAW PERMA SV N PERMA SWEDGE, ND REPOSITIONED V K WITH ENGINE RUN	MBINED HYD IYD PRESSURE LINE WAGE TUBE PN D10036-12. VIRE BUNDLES TO
2012FA0000258	ISRAEL		HYDRAULIC LINE	CORRODED
3/21/2012	1124		72358961	
DEGREE BEND, SPRA PIN HOLE SIZE FAILU	AYING 1.5 PINTS IN IRE ON THE OUTE ON ON THE FAILUF	EVERSER CONTROL VALVE STOW N THE AFT SECTION OF THE ACF R BEND RADIUS OF THE TUBE. F RE PORTION OF THE LINE. THIS L	T. INSPECTION OF TH URTHER INVESTIGA	HE LINE REVEALED A TION REVEALED
2012FA0000231	LANCAR	KELLY	SHAFT	SHEARED
4/20/2012	LC41550FG			RT ALTERNATOR
OPERATIONS TO THE REMOVAL OF THE AL	E RAMP THE PILOT TERNATOR FROM	ND ALTERNATOR ON FINAL APPR TREPORTED HEARING A "NOISE" I THE ENGINE, IT WAS DISCOVER LOCATED AFT OF THE DRIVE CO	FROM THE FRONT (OF THE ACFT. UPON
2012FA0000294	LEAR	GARRTT	EXHAUST DUCT	CRACKED
5/10/2012	35A	TFE73122B	26520375	LT ENGINE
LT ENGINE AFTER BO PANEL. DOUBLER PA	·	F DUCT, 4" CRACK EMMINATING F AW SRM 51-00-00.	ROM INNER IGNITIO	N PLUG ACCESS
2012FA0000207	LEAR		WIRE HARNESS	CHAFED
4/18/2012	45LEAR		4591009187009	NLG STEERING
STEERING ACTUATO	R WIRE HARNESS	TED. INSTALLED NEW NLG STEEF CHAFED. CHAFE CAUSED BY NL NING MESSAGE NO LONGER DISF	.G TRUNION PIN BOL	

2012FA0000261	LEAR	PWC	BOLT	LOOSE	
3/18/2012	60LEAR	PW306A	31B242401	FAN DISK	
FLIGHT CREW DISCOVERED DURING PREFLIGHT INSPECTION THAT THE LT ENGINE SPINNER ATTACH BOLT, PN31B2424-01 HAD COME LOOSE FROM THE TIE ROD, PN 31B2431-01. RECORDS SEARCH REVEALED THAT THE FAN DISK WAS REMOVED FOR INSP. TECH SUSPECTS POSSIBLE CAUSE COULD BE IN CROSSED CLEARANCE BETWEEN THE THREADS OF THE BOLT AND THE TIE ROD CAUSED BY MULTIPLE REMOVALS OF FAN DISK, ALTHOUGH INSP OF BOLT, TIE ROD THREADS, WASHER KEY, KEY DRIVE AND MATEING SURFACES SHOW NO DEFORMATION, ORIGINAL BOLT TORQUED TO PROPER SPECIFICATION.					
2012FA0000293	LIBRTY		ATTACH FITTING	WORN	
5/2/2012	LIBERTYXL2		135A10236	ZONE 600	
RIGHT WING ATTACH	H FITTINGS ARE S	HOWING WEAR BY FORE AND AF	T MOVEMENT OF WI	NG.	
2012FA0000277	MAULE	LYC	SPARK PLUG	MISMANUFACTURED	
3/6/2012	M7260C	IO540*	REM38S	ENGINE	
IN A FEW OF THE PLI FAILED, THE RESIST	UGS. NOTICED HA ORS WERE COMP	GS IN FEB 2010 AT 1260 HRS TT. N ARD STARTING WHEN HOT. AT AN PLETELY OPEN AND REGISTERED ALL REMOVED AND REPLACED.	NUAL INSPECTION, 7	7 OF 12 PLUGS HAD	
2012FA0000260	MTSBSI		SWITCH	FAILED	
3/15/2012	MU2B60		1EN16	LT MLG DOOR	
SELECTED GEAR DC ALTERNATE GEAR E LIGHT PROBLEM WIT STAYED RETRACTED SWITCH PLUNGER W	AFTER TAKE OFF, RETRACTED GEAR AND RED DOOR UNSAFE LIGHT WAS ON. ELECTED TO RETURN TO FIELD, SELECTED GEAR DOWN AND GEAR STAYED UP. TRIED CYCLING GEAR SWITCH, NO HELP. ACCOMPLISHED ALTERNATE GEAR EXTENSION AND LANDED SAFELY. JACKED ACFT, RAISED GEAR AND DUPLICATED UNSAFE LIGHT PROBLEM WITH GEAR UP. NOTICED MLG FWD DOORS WERE WIDE OPEN. TRIED LOWERING GEAR, GEAR STAYED RETRACTED. FOUND 1 SET OF CONTACTS IN THE LT AFT MLG (AFT DOOR) SWITCH OPEN. PUSHING SWITCH PLUNGER WITH FINGER, SWITCH FELT CRUNCHY. REPLACED SWITCH, CYCLED GEAR 5 TIMES WITH NO PROBLEMS. TEST FLEW AND CYCLED GEAR TWICE, ALL OPS NORMAL.				
2012FA0000225	PILATS		BRAKE DISC	BROKEN	
4/19/2012	PC12		30244	RIGHT	
THE OTBD FLOATING	G DISC ON THE RT	BRAKE WAS BROKEN IN 3 PIECE	S. NO KNOWN CAUS	ALITY FOR FAILURE.	
C41R201204240001	PILATS	PWA	ROTOR	SEPARATED	
4/24/2012	PC1247	PT6A67B		BRAKE ASSY	
DURING A ROUTINE ANNUAL INSPECTION, WHILE PERFORMING A WHEEL BEARING LUBRICATION INTERVAL, TECH FOUND THE RT MLG BRAKE CALIPER OUTER BRAKE ROTOR HAD SEPARATED IN TO 2 SEPARATE SECTIONS. PILOT AND TECH DID NOT REPORT ANY DEGRADED BRAKING CHARACTERISTICS DURING TAXI, TAKEOFF, OR LANDING. THERE ARE 3 BRAKE ROTORS IN THE CALIPER. TECH COMPLETED VISUAL ON THE MIDDLE AND INBD UNITS. NDN LT MLG SHOWED NO DEFECTS. NEW BRAKE CALIPER WAS ORDERED AND INSTALLED.					
2012FA0000202	PIPER		AIR FILTER	FAILED	
4/22/2012	PA28140		BA3	ENGINE	
AIR FILTER ELEMEN	T CAME APART AT	THE SEAM. SECOND ONE FOUNI	Э.		
2012FA0000224	PIPER	LYC	TRANSMITTER	ERRATIC	
4/20/2012	PA28180	O360A4A	68101	FUEL QTY	
ANNUAL INSPECTION VERY ERRATIC AND REPLACED WITH O/H	N, MECHANIC DISC DID NOT APPEAR I UNITS APPROX 4	VERY ERRATIC FUEL QUANTITY IN COVERED THAT THE BOTH FUEL TO BE WITHIN TOLERANCE. FUEL 40 HOURS PREVIOUS. REPLACED PEAR TO BE ANYMORE THAN OEN	QUANTITY SENDERS L QUANTITY SENDER WITH NEW PMA UNI	RESISTANCE WAS RS HAD BEEN TS AND OPERATION	

2012FA0000271	PIPER	LYC	TUBE	DEFECTIVE	
4/12/2012	PA28181	O360A4M	600X6	NOSE TIRE	
ACFT LANDED AND REPORTED A NOSE TIRE THAT FELT DEFLATED ON ROLLOUT. THE LANDING OCCURRED WITHOUT INCIDENT. THE ACFT WAS RETURNING FROM A TRAINING FLIGHT. THE MX DEPT REPLACED THE NOSE WHEEL/TIRE ASSEMBLY. UPON DISASSEMBLY OF THE FLATTENED TIRE AND WHEEL, IT WAS DISCOVERED THAT A SMALL PIN HOLE WAS ON THE SIDE OF THE TUBE NEAR THE TOP AND WAS NOT A RESULT OF THE BUILD UP OF THAT COMPONENT. WE FEEL THAT HTIS IS ANOTHER FMG DEFECT FROM MFG. HAVE EXPERIENCED A HIGH VOLUME OF THESE FAILURES AND ARE WAITING FOR A FINAL RESOLVE FROM MFG. WE ARE AWARE THAT A SPECIAL AIRWORTHINESS INFO BULLETIN HAS BEEN ISSUED AND WE ARE IN POSSESSION AND HAVE READ THAT DOCUMENT.					
2012FA0000272	PIPER	LYC	TUBE	DEFECTIVE	
4/12/2012	PA28181	O360A4M	G156006	TIRE	
AND MX REPLACED DISCOVERED THAT A FLAW IN THE MFG	THE TIRE/WHEEL THE TUBE HAD A PROCESS. AFTEI	LANDING, AFTER A TRAINING MI ASSY. UPON DISASSEMBLY OF MFG DEFECT. A SMALL HOLE NO R THE REQUIRED MX WAS PERF HAN NORMAL FAILURE RATE OF	THE AFFECTED TIRE/ DT CREATED FROM T ORMED THE ACFT W/	WHEEL ASSY, IT WAS HE TIRE BUILD UP, BUT AS RETURNED TO	
NX4R000032	PIPER		BRACE	BROKEN	
4/5/2012	PA28R201		76426803	NLG	
WHEN THE PILOT SELECTED "GEAR UP", A NOISE WAS HEARD IN THE NOSE WHEEL AREA. THE NOSE GEAR INDICATION WAS UNSAFE AND WHEN THE LANDING GEAR WAS SELECTED "DOWN", THE GREEN LIGHT DID NOT ILLUMINATE. AFTER LANDING THE NLG LINK PN-76426-803 WAS FOUND CRACKED AND BROKEN AT THE ACTUATOR ATTACH LOCATION. THE END OF THE ACTUATOR WAS MISSING AS WELL.					
2012FA0000228	PIPER	CONT	SPARK PLUG	DAMAGED	
3/2/2012	PA28R201T	TSIO360F	RHM38E	ENGINE	
PILOT REPORTED ENGINE BEGAN RUNNING ROUGH AT 11,000 FT. DESCENDED TO 5,000 FT AND ENGINE OPERATED CORRECTLY. RETURNED TO AIRPORT, LANDED WITHOUT FURTHER INCIDENT. REMOVED TOP COWLING AND ALL 12 SPARK PLUGS, PN RMH38E. ALL SPART PLUGS RUSTED ON OUTSIDE AND INSIDE THE BARRELS WHERE THE IGNITION LEADS INSTALL. SPARK PLUGS SHOWED 70 PERCENT NORMAL WEAR AND WERE NOT FOULED EXCESSIVELY. BLASTED 3 SPARK PLUGS AND TEST FIRED. RESULTS WERE VERY WEAK SPARK. ACFT FLOWN LESS THAN 60 HOURS PER YEAR. 12 NEW RHM38E SPARK PLUGS INSTALLED. PILOT COMPLETED FLIGHT WITHOUT INCIDENT.					
2012FA0000242	PIPER		HOUSING	WRONG PART	
4/17/2012	PA32R301T		RB90812	FUEL PUMP	
FUEL PUMP WAS RECEIVED FOR A FUNCTIONAL TEST DUE TO POOR OPERATION BELOW 1400 RPM WITH THE BOOST PUMP TURNED ON. WHEN TESTED, THE FUEL PRESSURE WAS SET 10 PSI LOW AND TEST FLUID WAS NOTICED LEAKING FROM THE UPPER DECK REF PORT OF THE PUMP RELIEF VALVE COVER. IT WAS ALSO NOTICED DURING THE PRELIMINARY INSP THAT THE FULE PUMP BODY WAS THE INCORRECT PN. THE PUMP BODY INSTALLED PN RD9081-2 BUT IT SHOULD HAVE HAD AN RD 9081 BODY. THE RD9081-2 BODY UTILIZES A THREADED HOLE FOR A SCREW THROUGH THE BODY TO LOCATE THE PUMP LINER WHILE THE RD9081 BODY HAS NO HOLE FOR A SCREW AND THE LINER IS LOCATED BY A PIN INSERTED THROUGH THE FACE OF THE RELIEF VALVE BODY MOUNTING SURFACE. THE PART OF THE SCREW THAT LOCATES THE LINER HAD BEEN GROUND OFF AND THE SCREW WAS ONLY USED TO SEAL THE THREADED HOLE IN THE BODY. THE LINER WAS LOCATED BY A LOCATOR PIN INSTALLED THROUGH THE FACE OF THE RELIEF VALVE BODY, WHICH IS CORRECT FOR THIS PN FUEL PUMP. IT WILL BE NECESSARY TO REPLACE THE BODY AS WE O/H THIS PUMP.					
2012FA0000230	PIPER	CONT	LINK ASSY	BROKEN	
4/20/2012	PA34200T	TSIO360E	6702502	MLG	
ON LANDING, LINK / VEER OFF RUNWAY		AR TRUSS ASSY BROKE AT STRI	JT ATTACHMENT ARI	EA, CAUSING ACFT TO	

<u>GW1R20120427181</u>	PIPER		BRACE	CRACKED		
4/27/2012	PA421000		75245015	RT MLG		
DURING ROUTINE INSPECTION, RT MLG SIDE BRACE WAS FOUND CRACKED. THIS IS A POST SB 0817C PART. PART LIFE-LIMIT IS 3,000 HRS PART TTSN:1876.7 HRS. PART WAS REPLACED WITH NEW UNIT. NOTE: THIS IS THE SECOND OCCASION THAT THIS PART HAS BEEN FOUND CRACKED ON THIS MODEL ACFT. PREVIOUS M & D WAS SUBMITTED.						
2012FA0000286	PIPER		TIRE	DEFLATED		
5/7/2012	PA44180		SEMITIREASSY	ZONE 700		
NOSE TIRE DEFLATI	ED ON LANDING.					
2012FA0000282	PIPER	LYC	OIL CAP	LOOSE		
5/7/2012	PA44180	O360A1H6		GOVERNOR		
AFTER LEVELING OFF AT 5,500 MSL THE CREW BEGAN LEANING MIXTURES AND THE RT ENGINE RPM BEGAN TO DROP AT A STEADY RATE. NO ENGINE ANNUNCIATORS APPEARED AND ALL ENGINE INSTRUMENTS READ NORMAL AFTER 15 SECONDS THE RT PROP WENT FULL FEATHER AND THE ENGINE WAS SHUTDOWN BY THE CREW. THEY RETURNED TO THE AIRPORT AND LANDED WITHOUT INCIDENT, ON ONE ENGINE. MX INSPECTED ACFT AND FOUND THE RT GOVERNOR WAS LEAKING AT THE TOP OF THE GOVERNOR BODY. GOVERNOR WAS REPLACED AND ALL SYS CHECKED GOOD. GOVERNOR WAS SENT TO OVERHAUL FACILITY FOR TEAR DOWN AND REPORT OF INTERNAL CONDITION. UPON TEARDOWN A ROTATION OIL PLUG IN THE BODY HAD CAME LOOSE AND OUT OF BODY CAUSING GOVERNOR TO LOOSE OIL PRESSURE. DURING DISCUSSION WITH OVERHAULER HE STATED THAT HE HAD NEVER SEEN THIS HAPPEN BEFORE.						
ECPR201204130001	PIPER	LYC	THROTTLE CABLE	DETACHED		
4/10/2012	PA44180	O360E1A6D	554528	ZONE 400		
ON CLIMBOUT, 600-700FT AGL, INSTRUCTOR PILOT (IP) REDUCED RT THROTTLE TO IDLE TO SIMULATE ENGINE FAILURE. STUDENT PILOT (SP) SIMULATED FEATHERING RT PROPELLER AND WHEN ATTEMPTING TO SET ZERO THRUST, IP DISCOVERED THAT THERE WAS NO THRUST AVAILABLE. RT ENGINE WAS SECURED, EMERGENCY DECLARED AND UNEVENTFUL LANDING PERFORMED. UPON INSP OF THE RT ENGINE, IT WAS DISCOVERED THAT THE A SWAGED PORTION OF THE RT THROTTLE CABLE, AT THE ENGINE END CONNECTION, HAD FAILED, ALLOWING THE ONLY THE CABLE HSG TO MOVE WHEN THE THROTTLE LEVER IN THE COCKPIT WAS MOVED. FURTHER INSP OF THE FAILED SWAGED AREA LED THIS SUBMITTER TO CONCLUDE THAT DURING THE INITIAL ASSY OF THIS PARTICULAR THROTTLE CABLE, THE CABLE HSG HAD NOT BEEN INSERTED INTO THE CABLE END FAR ENOUGH BEFORE THE END WAS CRIMPED/SWAGED ONTO THE CABLE HSG.						
2012FA0000284	RAYTHN		HINGE FITTING	CRACKED		
5/7/2012	390		3901104400001000	LT WING TE FLAP		
		NG FLAP ACTUATOR ATTACHMEN ND THE RT WING INBD FLAP FAIF				
2012FA0000243	SNIAS	TMECA	SKIN	CHAFED		
3/20/2012	AS350B2	ARRIEL1D1		TAIL BOOM		
DURING A SCHEDULED 600 HR INSPECTION, MECHANIC PERFORMED A CMD-AS350-09-22 CONCERNING CHAFING OF THE CONDUIT CLAMPS AND CONDUIT ON THE UPPER AND LOWER VERTICAL STABILIZER SPAR AND SKIN. FOUND CHAFE DAMAGE TO THE UPPER VERTICAL STABILIZER SKIN, IN THE AREA OF CONCERN MENTIONED IN THE CMD, FROM WIRING PROTRUDING FROM THE CONDUIT TO THE ANTI-COLLISION LIGHT. THIS DAMAGE AREA IS LABELED AS ADDITIONAL DAMAGE. SUSPECT DAMAGE CAUSED BY IMPROPER MATERIALS USED AS CLAMPS AND CONDUIT. RECOMMEND A CHANGE IN FASTENING AND CONDUIT MATERIAL AND IF POSSIBLE THE ROUTING TECHNIQUE. THE CMD AND TECH SUPPORT WAS FOLLOWED TO EFFECT A REPAIR.						
2012FA0000241	SNIAS	TMECA	SHAFT	MISMANUFACTURED		
4/18/2012	AS350B3	ARRIEL2B1		TAIL ROTOR		
		OUTPUT SHAFT COMPROMISED. S TAL SUGGESTS THAT CORROSIN				

CHROME PROCESS OCCURRED. THIS CORROSION CAUSED THE CHROME FINISH TO NOT ADHERE PROPERLY AND THE WEAR PRODUCED BY THE TAIL ROTOR SPIDER BEARING CAUSED PREMATURE FAILURE OF THE CHROME SURFACE.

2012FA0000226	SNIAS	TMECA	SENSOR	MISINSTALLED
3/9/2012	AS350B3	ARRIEL2B1	50071550020	M/R MAST TACH

INTERMITTENT FLUCTUATIONS ON NR GAUGE DURING OPERATION. FOLLOWED TROUBLESHOOTING STEPS AND FOUND NR TACH SENSOR TO BE IMPROPERLY SHIMMED BY MFG CAUSING CONTACT OF THE SENSOR AND THE PICK UP TEETH ON THE MAIN ROTOR MAST, DAMAGING THE NR TACH SENSOR AND MAIN ROTOR MAST PICK UP TEETH. RECOMMEND CHANGES TO QUALITY CONTROL PROGRAM TO ENSURE SENSOR IS PROPERLY INSTALLED, THIS COULD INCLUDE AN IN PROCESS INSPECTION DURING INSTALLATION.

2012FA0000263	SNIAS	TMECA	SENDING UNIT	LOOSE
3/29/2012	AS350B3	ARRIEL2B1	7583552	FUEL

WHEN PERFORMING A 600 HR INSPECTION, THE MECHANIC NOTED, NO SAFETY WIRE PRESENT ON THE SCREWS SECURING THE SENDING UNIT TO THE TANK. THIS IS THE ACFT FIRST SCHEDULED 600 HR INSP. THIS DEFECT WOULD HAVE HAD TO OCCUR DURING THE ASSEMBLY PROCESS. A MORE COMPREHENSIVE QC PLAN IS NEEDED WHEN ASSEMBLING FLIGHT CRITICAL COMPONENTS.

2012FA0000259	SNIAS	TMECA	SNIAS	FLANGE	DAMAGED
3/23/2012	AS350B3	ARRIEL2B1		350A34102321	T/R DRIVE SHAFT

WHEN PERFORMING A 600 HR INSPECTION OF THE ACFT, THE MECHANIC PERFORMING THE INSP OF THE TAIL ROTOR FLANGES AND FLEXIBLE COUPLINGS NOTICED A SCORE ON THE FLANGE IN THE ATTACHMENT AREA. ACCORDING TO OEM CRITERIA, SCORES ARE CAUSE FOR REJECTION IN THIS AREA. ACFT TIS 600 HRS. THIS WAS THE FIRST DETAILED INSPECTION OF THIS ASSEMBLY. BELIEVE PART TO HAVE BEEN SCORED PREVIOUS TO OR DURING ASSEMBLY BY TOOLING OR MISHANDLING OF THE PART. TIGHTER QA PRCEDURES SUCH AS PRE/POST INSTALLATION INSP OF FLIGHT CRITICAL PARTS.

2012FA0000253	TECNAM	ROTAX	LINE	DETERIORATED
5/2/2012	P2002SIERRA	ROTAX912S	27094	FUEL SYSTEM

DURING CLIMB OUT, SHORTLY AFTER TAKEOFF THE PILOT EXPERIENCED A ROUGH RUNNING ENGINE, ACFT RETURNED TO AIRPORT. DURING INSPECTION OF THE ENGINE THE MECHANIC DISCOVERED DEBRIS IN THE CARBURETOR BOWLS. AFTER FURTHER INSPECTION THE MECHANIC DISCOVERED DETERIORATION OF THE INTERIOR MATERIAL IN THE FUEL HOSES. THE HOSES WERE INSTALLED NEW AT 158.95 HOURS FOR COMPLIANCE OF THE 5 YEAR HOSE REPLACEMENT SCHEDULE.

2012FA0000255	ZINAIR	LYC	OIL COOLER	CRACKED
4/29/2012	CH2000	O235N2C	P010904	ENGINE OIL

PILOT REPORTED ODOR OF BURNED ELECTRICAL WIRING FOLLOWED BY ENGINE OIL ENTERING CABIN AT FOOT PEDAL AREA, LOSS OF ENGINE OIL PRESSURE INDICATED. EMERGENCY LANDING, SAFELY LANDED APPROX 5 MINUTES AFTER FIRST NOTICING THE ENGINE OIL PRESSURE LOSS. FOUND ENGINE WAS FOUND DRY, WITH A LARGE OIL TRAIL STARTING ON THE FIREWALL BEHIND THE ENGINE OIL COOLER, LOCATED ON THE FIREWALL PILOT'S SIDE AND EXTENDING THE ENTIRE LENGTH OF FUSELAGE BELLY. THE 6-QUART OIL SUMP FOUND TO CONTAIN 1.5 - 2.0 QUARTS OF ENGINE OIL, VISUALLY INSPECTED FOR CONTAMINANTS AND NONE FOUND.