





# ADVISORY CIRCULAR 43–16A

# AVIATION MAINTENANCE ALERTS





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

The Aviation Maintenance Alerts provide a common communication channel through which the aviation community can economically interchange service experience and thereby cooperate in the improvement of aeronautical product durability, reliability, and safety. This publication is prepared from information submitted by those who operate and maintain civil aeronautical products. The contents include items that have been reported as significant, but which have not been evaluated fully by the time the material went to press. As additional facts such as cause and corrective action are identified, the data will be published in subsequent issues of the Alerts. This procedure gives Alerts' readers prompt notice of conditions reported via Malfunction or Defect Reports. Your comments and suggestions for improvement are always welcome. Send to: FAA; ATTN: Designee Standardization Branch (AFS-640); P.O. Box 25082; Oklahoma City, OK 73125-5029.

# AIRPLANES

## AERONCA

### Aeronca; Model 7-AC; Champ; Wing Structure Damage; ATA 5711

After the right wingtip struck the ground, the owner asked maintenance personnel to inspect the aircraft for damage.

During the inspection, the technician discovered the outboard end of the right wing spar was cracked. The crack traveled longitudinally approximately 30 inches inboard. Due to the severity of this damage, he had to replace the spar.

The submitter did not provide any other details. However, all operators are cautioned to thoroughly inspect the aircraft after any wing strike event. Pilots are encouraged to report all wingtip strikes and/or hard landings and have them investigated by a qualified maintenance person.

Part total time not reported.

### **AMERICAN CHAMPION**

#### American Champion; Model 7-ECA; Citabria; Wing Spar Defects; ATA 5711

While restoring the aircraft, the owner found several severe defects on the right wing spars.

In accordance with Airworthiness Directive (AD) 2000-25-02 R1 and American Champion Service Letter (SL) 406, Revision A, the owner removed, cleaned and inspected the right rear wing spars. A maintenance record entry, dated January 16, 1993, recorded a "hard landing."

At first glance, the spars appeared to be in good condition. However, a high-intensity light revealed four compression cracks on the upper edge of the rear spar and one crack associated with an aileron bellcrank attachment hole. Two of the cracks extended down through the spar at the plywood plate through approximately 45 percent of the spar thickness. He found two splits that originated at the wing strut attachment reinforcing plywood plate and followed the edge grain of the wood for approximately 2.5 inches. (Refer to the illustration.)

The submitter stated he would not have found these defects using ordinary visual inspection techniques. None of the cracks were visible until the varnish, excess adhesive, and dirt were removed. He suggested chamfering the vertical edges of the plywood reinforcement plates by .75 inch might reduce the stress buildup at this location.

Part total time not reported.



### American Champion; Model 8KCAB; Decathlon; Defective Propeller Assembly; ATA 6110

During a scheduled inspection, a technician discovered a crack in the propeller assembly.

The propeller pitch cylinder (hub) (P/N B-2428-2) was severely cracked on the forward end. The crack traveled outboard from both sides of the low pitch stop-nut. (Refer to the illustration.) Airworthiness Directive (AD) 2001-23-08 deals with this subject, and this aircraft was in compliance with the AD. Hartzell Service Bulletin (SB) HC-SB-61-227, Revision 2, dated May 8, 2000, is incorporated by reference in AD 2001-23-08.

The submitter stated this aircraft is used in a training environment for aerobatic instruction, and "hard" use may have contributed to the defect.

Part total time-283 hours.



### BEECH

#### Beech; Model 58 Baron; Erroneous Oil Temperature Indication; ATA 7933

The pilot reported that after takeoff, he noticed a steady increase in oil temperature on the left engine. The oil temperature was at "red line" before the pilot could feather the propeller and begin a return to the departure airport.

Technicians investigated the problem and found the oil quantity was within limits. There was no indication that the engine oil temperature had been excessively high. Further troubleshooting revealed the oil temperature circuit was defective. A pin was pulled out of the oil temperature cannon plug (P/N MS3106A12S-38). After replacing the cannon plug, the indicating system functioned properly.

Part total time not reported.

#### Beech; Model 58; Baron; Landing Gear Failure; ATA 3230

After takeoff, the pilot discovered the landing gear would not retract. He placed the landing gear control back in the "down" position and landed the aircraft safely.

The weather conditions were wet and cold, and the technician discovered that ice prevented the landing gear "squat" switches from operating. The switches were frozen in position. After he thawed and dried the switches, the gear functioned properly during a test.

It would be wise to consider the environmental conditions during preflight inspections and give special attention to the landing gear components.

Part total time not reported.

#### Beech; Model 65B80; Queen Air; Poor Engine Performance; ATA 7414

During an engine "break-in" operational test, a technician noticed very poor left engine performance when operating on the right magneto.

An investigation revealed the magneto primary coil retainers were loose inside the case. It was apparent the retainers became caught in the timing gear and caused severe damage to the gear teeth.

The submitter speculated the retainers were not properly installed. It was fortunate the damage was located at the timing mark where it was easily seen. It was suggested that technicians exercise care and use appropriate technical data to prevent this type of defect.

Part total time-9 hours.

#### Beech; Model B99; Airliner; Defective Elevator Attachment; ATA 2730

During a scheduled inspection, a technician found a defective elevator attachment.

The collar (P/N 115-610015-3) installed at the inboard end of the left elevator was cracked. The collar is attached to the elevator torque tube (P/N 115-610010-325) via a taper pin fastener. The crack was located adjacent to the taper pin.

The submitter could not determine if the crack was caused by fastener overtorque or normal wear.

Part total time-35,566 hours.

#### Beech; Model 100; King Air; Defective Rudder Control Component; ATA 2720

While performing other maintenance, the technician removed the rudder assembly.

The technician discovered severe corrosion damage on the rudder bellcrank (P/N 100-600012). The corrosion was located beneath the lower rudder attachment fitting. The corrosion damage required replacement of the bellcrank.

The submitter suggested giving this area diligent attention during inspections and maintenance. He also suggested giving this area an application and reapplication of corrosion preventive measures.

Part total time-6,662 hours.

### Beech; Model 200; King Air; Landing Gear Discrepancy; ATA 3211

This aircraft was delivered to a maintenance facility with a flightcrew report that the landing gear "unsafe" light stayed on when the gear selector was up.

Maintenance personnel jacked the aircraft, performed a gear retraction test, and duplicated the reported discrepancy. While investigating the cause, a technician discovered the left main landing gear actuator support bearings were "coming apart." The left main gear upper drag link assembly was hitting two bolts during the retraction cycle. The bolts used in the left lower cap assembly (P/N101-120025-11) were improperly installed. The improperly installed bolts led to the actuator support failure, as well as other minor damage, and caused malfunction of the gear indication switches.

The submitter suggested that proper use of the manufacturer's technical data would prevent this type of discrepancy.

Part total time not reported.

#### Beech; Model 200; King Air; Cabin Entry Door Defect; ATA 5210

During a scheduled inspection, a technician discovered excessive movement of the cabin entry door handrail.

The excessive movement was present in the hinge area of the forward and aft handrails. Investigating further, the technician discovered both "intercostal" (P/N's 50-430043-1291 and 101-430178-1) structures were cracked and broken at the rivet locations.

The submitter suggested giving this area diligent attention during inspections and maintenance.

Part total time-4,739 hours.

#### Beech; Model 300; King Air; High Engine Oil Temperature; ATA 7922

The flightcrew reported that during cruise flight, the oil temperature on the right engine rapidly increased to the "red line." When they reduced the engine power, the oil temperature decreased into the "green arc."

An investigation led maintenance personnel to believe the engine oil temperature regulator/pressure relief valve (P/N 723747), which is located on the oil cooler (P/N 101-389028-3), stuck closed. Since the valve was stuck, circulation of engine oil through the cooler was prevented.

The submitter stated the same discrepancy occurred on the left engine oil system 78 operating hours prior to this occurrence.

Part total time 189 hours.

#### Beech; Model 1900C; Airliner; Fire Extinguisher System Defect; ATA 2620

While performing an inspection, the technician discovered the fire-extinguisher system was defective.

The "squib" power switch (P/N 101-570021-6) was "dislocated" from the main engine fire-extinguisher annunciator/actuator assembly. The tabs on the annunciator body were not properly retaining the "squib" switch module. The technician checked other like aircraft for this condition and found two out of six units were also loose.

The submitter stated, "The new replacement assemblies are only marginally better for retention of the squib switch module, which is located on the aft end of the annunciator/actuator assembly." He suggested the manufacturer change the design of this unit to provide a positive attachment of the "squib" power switch.

This condition would prevent the flightcrew from discharging the affected engine fire-extinguisher bottle. There is no way for the flightcrew to verify the system function and operation in accordance with proper preflight procedures.

Part total time not reported.

#### Beech; Model 1900D; Airliner; Defective Electrical System; ATA 2841

After returning from a flight, the pilot stated he smelled smoke in the cockpit and saw smoke coming from the left side of the instrument panel. The flightcrew was able to isolate the associated electrical systems, and they landed the aircraft safely.

While troubleshooting this problem, the technician discovered a shorted electrical panel wire. The wire (P/N X31F20) is used to supply electrical power from the bus bar terminal to the fuel quantity indicator panel. He found approximately 17 other wires, which are located in the same area, had suffered damage from excessive heat. He replaced all the damaged wiring.

The submitter did not give a cause for the electrical short.

Part total time-2,333 hours.

### CESSNA

#### Cessna; Model 172M; Skyhawk; Flight Control Cable Failure; ATA 2700

The National Transportation Safety Board (NTSB) provided the following article. (*The article has been printed as it was received.*)

Witnesses in the airport traffic pattern heard the pilot announce on the radio that he had lost all aileron control.

While investigating the accident, an NTSB investigator discovered that two flight control cables were broken. He found that the left aileron control cable separated in the area of the top pulley located at the right doorpost. The cable was severely frayed for several inches on each side of the failure point and there was evidence of heavy corrosion on the cable and inside the pulley track. When the pulley was removed, it exhibited binding in the bearing, which prevented free rotation of the pulley.

In addition, the right wing flap cable was separated approximately 27 inches from the bellcrank in the area of the right fuel tank. The wing flap cable exhibited the same corrosion and fraying as the aileron cable.

All concerned persons should examine the flight control cables closely for signs of fraying and/or corrosion at every opportunity. This is especially necessary in the areas that are difficult to inspect such as removing the cockpit headliner. The extra time and effort spent could very well prevent an aircraft accident.

Part total time not reported.

#### Cessna; Model 172N; Skyhawk; Defective Alternator Installation; ATA 2421

While conducting other maintenance, a technician noticed the alternator appeared to be loose at the support bracket attachment point.

The technician removed the alternator and discovered a "spark plug" gasket had been used in place of a washer on the alternator attachment bolt. The alternator housing was cracked, the bushing was loose, and the bushing hole was severely elongated.

The submitter believes all of this damage was caused by the use of the "spark plug" gasket in place of the steel washer. He speculated the gasket crushed during operation allowing movement and further crushing of the gasket which led to the other damage mentioned.

Part total time not reported.

#### Cessna; Model 172R; Skyhawk; Wing Skin Cracks; ATA 5730

While conducting a scheduled inspection, the technician discovered numerous cracks in the left wing skin.

The cracks were located in the top trailing edge of the wing skin at the inboard end. The cracks were adjacent to four rivets (P/N AN426-AD4) just above the wing flap that join the trailing edge stiffener to the upper and lower wing skins. The cracks ranged from .5 to 1 inch in length, and only one crack penetrated a rivet hole.

One crack was approximately 1 inch long and was adjacent to a rivet that attaches the inboard wing rib to the upper skin. It appeared the extreme aft wing root fairing screw contacted the upper skin and caused this crack. The screw shank was longer than necessary. After the technician removed the wing to repair the damage, he discovered a doubler and a flush patch, approximately 9 inches by 4 inches, had been installed.

It seems rather odd to find such a repair member on a relatively new aircraft! The submitter suggested that close attention be given to the use of proper length hardware during installations.

Aircraft total time-590 hours.

#### Cessna; Model 172S; Skyhawk; Fuel Leak; ATA 2810

While conducting an engine operational test, the technician smelled fuel in the cockpit.

After shutting down the aircraft, the technician removed the floor panels and found a puddle of fuel. Investigating further, he noticed a fuel stain on the reservoir tank (P/N 0516009-18). He de-fueled the aircraft and removed the reservoir tank. After stripping the paint, he conducted a "dye-penetrant inspection that revealed a crack adjacent to the lower aft welded seam.

The submitter suspects the crack was caused by the misalignment of the upper mounting hole nut plate. Structural stress was imposed when the tank was installed and the mounting fasteners were tightened. He suggested that proper alignment of the tank and structure mounting holes, as well as the nut plate, should be checked prior to final installation of the reservoir tank.

Part total time-614 hours.

#### Cessna; Model R182; Skylane; Defective Propeller Spinner; ATA 6113

During a scheduled inspection, a technician noticed the propeller seemed exceptionally loose.

The technician found both propeller spinner attachment plates (McCauley P/N C5046) were severely cracked. The cracks traveled through four of the six attachment fastener holes on each attachment plate. It appeared the cracks originated from the corner of each fastener head and went to the outer edge of the plates. (Refer to the illustration.) There were three cracks on one of the attachment plates and one long crack on the other.

The technician removed the bolts from the plates and noticed that no washers had been installed as required by the manufacturer's technical data. Evidently, the washers were



omitted when the propeller was installed. He inspected two other like aircraft and found the same 12 washers had been omitted. He discovered the washers were omitted from the propeller attachment bolts on all three aircraft.

The submitter suggested that proper adherence to the manufacturer's approved technical data would prevent recurrence of this type defect.

#### Part total time-750 hours.

#### Cessna; Model 190; Flight Control Structural Defect; ATA 5751

During a scheduled inspection, a technician discovered both aileron hinge brackets were severely damaged.

The left and right inboard aileron hinge brackets (P/N's 0322709 and 0322709-1) were in a state of imminent failure. The technician discovered both hinge brackets were cracked completely across the bearing boss. There was severe corrosion on the aileron hinge brackets, and one of the bracket mounting legs was broken. (Refer to the illustration.)

The submitter believes corrosion caused the metal to become "brittle" and propagated this damage. The aileron hinge brackets are made of magnesium, which is highly susceptible to corrosion. The same type of aileron hinge bracket is used on 195A and 195B model aircraft.

Since this is a critical component, the submitter suggested giving the brackets a close inspection at every opportunity.



Part total time not reported.

#### Cessna; Model 208B; Caravan; Engine Failure; ATA 7314

After an off-airport landing incident, the pilot stated the engine failed and could not be restarted.

During an investigation, a technician discovered there was no fuel supply to the engine fuel control. The engine-driven fuel pump (P/N 025323-150), located on the engine accessory gearbox, had a sheared drive shaft.

The submitter suggested a mandatory life limit for replacement of the fuel pump drive assembly.

Part total time since overhaul-3,972 hours.

#### Cessna; Model 210D; Centurion; Defective Antenna Installation; ATA 2300

While completing a scheduled inspection, the technician discovered the emergency locator transmitter (ELT) antenna was loose.

The technician removed the ELT antenna assembly (P/N 450017) and found the shield-locking nut, used to secure the metal antenna rod to the base assembly, was the source of the looseness. He removed the antenna rod and discovered the female barrel connector solder joint was broken. The antenna rod is secured by means of an insulated plastic housing, located at the base of the antenna, inserted into a compression nut.

The submitter believes this installation is not structurally sound enough to bear the operational loads imposed on the antenna assembly.

Part total time-157 hours.

### Cessna; Model 320E; Skyknight; Landing Gear Failure; ATA 3230

After a landing incident, the pilot stated the nose landing gear did not fully extend. All attempts to extend the nose gear to the "down-and-locked" position failed, and it collapsed when it contacted the runway.

During the incident investigation, a technician discovered the nose gear retraction tube assembly (P/N 0842120-1) was broken. The aircraft manufacturer's technical data (IPB) lists another new retraction tube (P/N 0842121-1) that is supposed to be a stronger part. Research in the FAA, Service Difficulty Program data base revealed there were six reported failures of the original part (P/N 0842120-1) and seven reported failures of the new part (P/N 0842121-1).

The submitter speculated lowering the landing gear at excessive airspeeds might cause this type of failure. He cautioned pilots to adhere to published guidance for landing gear operation.

Part total time-3,600 hours.

#### Cessna; Model 402C; Businessliner; Nose Landing Gear Defect; ATA 3230

While conducting a scheduled inspection, a technician discovered a serious defect on the nose landing gear.

The nose gear drag brace (P/N 5142002-5) was severely cracked. The crack was located adjacent to the lug for attachment of the actuator and was in danger of complete failure. Failure of the actuator attachment lug would prevent proper operation of the nose gear.

The submitter recommended that all personnel be alert for damage in the area of the drag brace attachment lug and make use of dye-penetrant inspection techniques during scheduled inspections.

#### Part total time-2,244 hours.

#### Cessna; Model 750; Citation; Rudder/Brake Pedal Linkage Defect; ATA 3242

During a scheduled inspection, the technician discovered the pilot's right brake pedal linkage was defective.

The pin (P/N MS35675-4), used to secure the clevis-connecting pin (P/N 6261081-14), was exceptionally loose and working out of the clevis. (Refer to the illustration.) The pin, designed for a "press fit," could be removed by hand. It appeared the clevis material was worn sufficiently to allow the pin to become loose. If the two pins had come out, the pilot's right brake function would have been inoperative.

The submitter recommended the manufacturer consider replacing the clevis attachment pin with a device having a positive lock, such as a bolt and castle nut or a roll pin with safety wire.

Part total time-667 hours.



#### DIAMOND

#### Diamond; Model DA 20-A1; Structural Damage; ATA 5531

During a scheduled inspection, a technician discovered the empennage to the vertical stabilizer attachment was faulty. This aircraft is used mainly for flight training.

The vertical stabilizer spar was "disbonded" from the empennage attachment area, and the tail skid area was cracked. The submitter believes this damage was the result of landing with excessive airspeed and a nose-high attitude causing the tail section to contact the runway.

The submitter suggested the manufacturer modify the tail skid area to include a metal spring-type tail skid to alert the pilot of the ground proximity. This is the second occurrence of tail strike damage he has seen.

#### Part total time-1,822 hours.

#### MAULE

#### Maule; Model M6-235; Super Rocket; Defective Aileron Control System; ATA 2701

During other maintenance, a technician discovered the left aileron sprocket (P/N D-31) stop pin was broken.

The broken stop pin allowed the aileron surfaces to overtravel in both directions, and the balance weights hit the upper wing skin. The stop pin is located in the flight control yoke and limits the travel of the sprocket.

The submitter suspects this damage occurred when the aircraft was parked outside during high and gusty wind conditions without having the flight control gust locks installed.

Part total time-873 hours.

#### PIPER

#### Piper; Model PA 24-250; Comanche; Landing Gear Failure; ATA 3230

After a takeoff, the landing gear did not retract when the pilot selected the "up" position. He smelled an electrical burning odor and noticed the amp gauge indicated "discharge." He used the emergency system to extend the landing gear and made a safe landing.

The technician discovered the landing gear motor (P/N 21286-00) was shorted internally and producing the burning odor. There was evidence the motor assembly had produced excessive heat prior to the failure. After he replaced the landing gear motor assembly, it functioned properly during a test.

The submitter recommended performing an "electrical load test" on suspect landing gear motors to prevent in-flight failures.

Part total time-1,163 hours.

#### Piper; Model PA 24-250; Comanche; Landing Gear Failure; ATA 3230

During a landing approach, the landing gear extended only partially when the pilot selected the "down" position. All subsequent attempts to fully extend the landing gear failed. He landed the aircraft with the gear in an intermediate position.

The technician discovered that the 5-amp circuit breaker (P/N 464-656), which supplies electrical power to the gear solenoid, was faulty. The circuit breaker failed internally without giving an indication of the failure. Evidently, the circuit breaker failed while the landing gear was in transit, leaving the gear only partially extended.

Part total time-2,652 hours.

#### Piper; Model PA 28-140; Cherokee; Defective Engine Exhaust System; ATA 7820

During an annual inspection, a technician removed the engine muffler to facilitate the inspection.

While checking the structural integrity between the muffler (P/N 99482-00) and the heater shroud, the technician found numerous holes in the outer skin. Due to the damage, he replaced the muffler assembly.

The submitter cautioned technicians to give this area extra attention during scheduled inspections and maintenance.

#### Part total time-2,800 hours.

#### Piper; Model PA 28-151; Warrior; Poor Engine Performance; ATA 7322

During an annual inspection, a technician performed an engine-operational test and found the engine performance was poor.

The technician shut down the engine and opened the engine cowling to investigate the problem. He discovered all the carburetor (Marvel-Schebler MA-4SPA) bowl attachment bolts were loose and allowing excessive air to be drawn into the carburetor. The carburetor bowl bolt-locking tabs were in place and properly bent up.

The technician was not able to verify the bolts were within the proper torque range of 35 to 45 inch-pounds. It is possible that the bolts were loose due to shrinkage of the carburetor bowl gasket.

Part total time not reported.

#### Piper; Model PA 28-181; Archer; Flight Control Cable Damage; ATA 2700

While conducting a scheduled inspection, the technician discovered several flight control cables were damaged.

The forward right and left stabilator cables were severely worn and frayed. Also, the left and right aileron balance cables were similarly damaged. The damaged sections of the cables were located adjacent to pulleys, fairleads, and other places where the cables contacted the aircraft structure.

The submitter found very similar damage on another like aircraft. After reviewing the evidence, he speculated the cable damage was caused by the use of "substandard cable stock" and improper cable routing and alignment during manufacture.

Part total time-2,536 hours.

#### Piper; Model PA 31-350; Chieftain; Landing Gear Failure; ATA 3230

The pilot stated that after takeoff, the nose landing gear failed to retract. He immediately placed the gear control in the "down" position without result. He attempted to lower the gear using the emergency-extension system without success, and the flight culminated with a "gear-up" landing.

A technician discovered a flexible hose assembly (P/N 17766-04) used on the nose gear actuator was ruptured. It was evident the ruptured hose allowed depletion of the hydraulic fluid and prevented extension of the landing gear. The hydraulic hose failed at a point just below an identification tag (TSO Tag) affixed to the hose.

The submitter recommended that technicians be very diligent in their inspections of the landing gear actuator hoses during inspections and maintenance. This diligence is especially important in the area of identification tape, tags, or spiral wrap.

Part total time-6,363 hours.

#### Piper; Model PA 31-350; Chieftain; Engine Fuel Pressure Anomaly; ATA 2140

After a flight, the flightcrew related observing an intermittent drop of the fuel pressure on the right engine.

While interviewing the flightcrew, the technician learned the cabin heater (Janitrol) was operating when the fuel pressure fluctuations occurred. Since the cabin heater fuel supply comes from the right engine fuel supply, he tested the heater for fuel leaks. During the test, he found fuel leaking profusely from the heater fuel pressure regulator and shutoff valve (P/N A23D04-7-5).

The leaking part was new and had been installed to replace another new valve in accordance with Airworthiness Directive (AD) 2001-17-13. The FAA Service Difficulty Program data base contains 33 additional entries concerning this subject. Almost all the data base reports occurred with a very low number of operating hours. Considering these additional reports leads one to suspect there might be a systemic problem with the fuel valve.

Part total time-4 hours.

#### Piper; Model PA 31-350; Chieftain; Fuel Pump Failure; ATA 7314

During an engine-operational test at the beginning of a scheduled inspection, the technician noticed the right engine fuel pressure was low.

After increasing the engine-driven fuel pump (P/N RG8090J4A/M) pressure with the adjustment, another operational test revealed no change in the pressure reading. After another attempt, the technician found the proper pressure range was not obtainable by adjusting the pump.

The technician stated, "It appears the (pump internal) relief valve is hung up." The submitter related this was the eighth such pump failure he has seen. The FAA Service Difficulty Program data base contains three reports, including this one, showing a problem with this fuel pump. This would indicate that all the failures were not reported!

Part total time-450 hours.

#### Piper; Model PA 32R-300; Cherokee Lance; Defective Magneto; ATA 7414

The owner delivered the aircraft to a repair station and reported an excessive RPM drop on the left magneto.

The unit used on this aircraft was "dual magneto" (TCM P/N BL-682560-13). The technician opened the magneto and discovered the left magneto plastic gears were missing six teeth and one tooth on the right side. He removed and replaced the entire unit.

The submitter gave no reason for this defect.

Part total time-400 hours.

#### Piper; Model PA 601; Aerostar; Landing Gear Defects; ATA 3200

After jacking the aircraft to install a new set of tires, the technician discovered a structural defect on the nose gear.

The technician noticed excessive movement associated with the nose gear. Investigating further, he discovered the actuator support structure was severely cracked at numerous locations. Several original members of the actuator support structure were cracked completely through, including a previously installed repair.

The submitter recommended technicians give this area closer attention during inspections and maintenance. The extra attention is especially necessary on "high time" aircraft.

Part total time-14,000+ hours.

# **HELICOPTERS**

#### BELL

#### Bell; Model 407; Abnormal Noise During Flight; ATA 6730

After returning from a flight, the pilot related hearing a loud "howling" noise that seemed to come from the servo unit.

The technician removed and disassembled the servo unit (P/N 206-076-062-107) and discovered the cover (P/N 41002521) was severely corroded. The cover is used to secure the servo mechanism. Also, he found the retainer (P/N RS-62), used to secure the bypass valve spring, was severed from the effects of corrosion. (Refer to the illustration.)

The submitter stated the available evidence indicated the corrosion caused this damage. Evidently, the "boot," shown in the illustration, allowed water and contaminates to enter the unit and initiated the corrosion process. He suggested the manufacturer modify the cover by adding a water drain and/or improving the boot to exclude water from the unit.

Part total time-1,453 hours.



### EUROCOPTER

#### Eurocopter; Model BK-117; MBB; Main Rotor Blade Damage; ATA 6210

A repair station received a main rotor blade (P/N 117-150041) for inspection and evaluation of a crack in an abrasion strip.

The abrasion strip crack was located at blade station 230.5. The technician removed a portion of the abrasion strip for inspection. The blade skin under the abrasion strip was cracked and delaminated.

While reviewing the blade maintenance records, the technician discovered the manufacturer accomplished a repair/modification approximately 2.5 years prior to this defect. The blade repair installed pins for the retention of the number 1 and number 2 weights in accordance with the manufacturer's data (RV 117-100000.00.20).

It appeared the abrasion strip and blade skin cracks originated from a "drill mark" on the inside surface of the abrasion strip at the point where the weight pinholes were drilled. The weight retention pins are installed from the upper surface, and it was obvious the holes were drilled too deep allowing the drill bit to mark the lower inside surface of the abrasion strip.

The submitter reported finding cracks on the abrasion strips of other main rotor blades that had the manufacturer-installed weight pin modification. He recommended all operators with weight pin modified main rotor blades inspect for abrasion strip and/or skin damage as soon as possible.

Part total time-6,970 hours.

#### Eurocopter; BK-117; MBB; Searchlight Security; ATA 3340

During a flight, the pilot reported the searchlight was not controllable.

The technician noticed the searchlight assembly was loose on one side. A closer look revealed that one arm of the "gimbals" (P/N 019059) was broken. The searchlight assembly was retained by one arm of the gimbals and the retaining cable.

The submitter gave no reason for failure of the gimbal arm. He recommended giving the gimbals a close inspection for security and condition at every opportunity.

Part total time not reported.

#### Eurocopter; Model AS350BA; Ecureuil; Hydraulic System Failure; ATA 2910

After landing safely, the pilot stated he lost hydraulic system pressure during a tour flight.

A technician investigated and discovered the hydraulic system drivebelt (P/N 704A33-690-004) was separated. It appeared the drivebelt failed at the "bonded seam."

The submitter stated better quality control by the drivebelt manufacturer might alleviate this type of defect. He recommended giving the condition of the drivebelt close attention at every opportunity.

Part total time-395 hours.

### SIKORSKY

#### Sikorsky (Erickson); Model SK-64-F; Main Rotor Blade Structural Crack; ATA 6210

While conducting a postflight inspection, a technician discovered a crack on a main rotor blade.



# AMATEUR, EXPERIMENTAL, AND SPORT AIRCRAFT

### NORTH AMERICAN

#### North American; Model SNJ-4; Defective Replacement Hardware; ATA 5740

During a scheduled inspection, a technician ordered hardware to replace the existing wing attachment hardware.

When the hardware was received, the technician inspected the hardware and found the wing attachment nuts were not correct. The vendor had substituted "brass" nuts for the steel nuts (P/N AN 365-428) required for installation of the wings. Except for the material they were made of, the brass nuts were identical in all respects to the steel nuts. He could not trace the source of the brass nuts. He obtained the proper hardware prior to installing the wings.

The submitter suggested that all operators of like aircraft inspect newly acquired hardware closely to ensure it is correct for the intended installation.

Part total time not applicable.

#### **STODDARD-HAMILTON**

#### Stoddard Hamilton; Model Glasair II SFT; Poor Engine Performance; ATA 2820

During a flight, the pilot noticed the engine performance was very poor, especially at higher power settings. The engine performance degraded and resulted in engine failure and an off-airport landing.

While investigating the cause, the owner/pilot discovered the fuel flow to the engine was restricted. He found the inline fuel filter, installed between the fuel selector valve and the boost pump, was "clogged." The inline filter installation was an "add on" by the aircraft builder. When the filter was disassembled, he discovered a "rusty-looking" material was restricting the filter element.

The owner recalled refueling the aircraft from a metal barrel that had been stored for some time. Checking the filter contamination and the residue remaining in the refueling barrel, he found they were the same.

The idea of an extra inline fuel filter is good; however, we must ensure the fuel pumped into the tank is free of contamination!

Part total time-2,500 hours.

# **POWERPLANTS AND PROPELLERS**

### **TELEDYNE CONTINENTAL**

#### Teledyne Continental; Model LTSIO 360EB; Push Rod Damage; ATA 8530

These engines were installed on a Piper, Model PA 34-200T aircraft. During an annual inspection, a technician discovered three push rods on the left engine were damaged.

Each of the three push rods (P/N 630393) was cracked along their entire length. The technician could not determine the cause of this damage, but changed all 12 push rods on each engine. The high number of operating hours may have been a contributing factor in this failure.

The submitter recommended technicians inspect the push rods more frequently using a higher level of scrutiny.

Part total time-3,198 hours.

# AIRNOTES

#### **SUBSCRIPTIONS**

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In the past, we furnished the GPO subscription form in this publication. The older issues which contain the subscription form, may not have current pricing information. Since GPO controls price increases, contact GPO for current subscription information.

#### **ELECTRONIC VERSION OF MALFUNCTION OR DEFECT REPORT**

One of the recent improvements to the AFS-600 Internet web site is the inclusion of FAA Form 8010-4, Malfunction or Defect Report. This web site is still under construction and further changes will be made; however, the site is now active, usable, and contains a great deal of information.

Various electronic versions of this form have been used in the past; however, this new electronic version is more user friendly and replaces all other versions. You can complete the form online and submit the information electronically. The form is used for all aircraft except certificated air carriers who are provided a different electronic form. The Internet address is:

http://av-info.faa.gov/isdr/

When the page opens, select "M or D Submission Form" and, when complete, use the "Add Service Difficulty Report" button at the top left to send the form. Many of you have inquired about this service. It is now available, and we encourage everyone to use this format when submitting aviation, service-related information.

#### SERVICE DIFFICULTY REPORTING PROGRAM

The objective of the Service Difficulty Reporting (SDR) Program is to achieve prompt and appropriate correction of conditions adversely affecting continued airworthiness of aeronautical products fleet wide. The SDR program is an exchange of information and a method of communication between the FAA and the aviation community concerning inservice problems.

A report is 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 which may impair its future function, it is considered defective and should be reported under the program.

These reports are known by a variety of names: Service Difficulty Reports (SDR), Malfunction and Defect Reports (M and D) and Maintenance Difficulty Reports (MDR).

The consolidation, collation and analysis of the data, and the rapid dissemination of trends, problems and alert information to the appropriate segments of the aviation community and FAA effectively and economically provides a method to ensure 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 of this review, 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 (AD's) to address a specific problem.

The primary source of SDR's are certificate holders operating under Parts 121, 125, 135, 145 of the Federal Aviation Regulations, and the general aviation community which voluntarily submit records. FAA Aviation Safety Inspectors may also report service difficulty information when they conduct routine aircraft and maintenance surveillance as well as accident and incident investigations.

The SDR database contains records dating back to 1974. Reports may be submitted on the Internet through an active data entry form or on hard copy. The electronic data entry form is in the AFS-600 Aviation Information web site under the heading SDR Main Menu. The URL is: <a href="http://av-info.faa.gov">http://av-info.faa.gov</a>>

A public search/query tool is also available on this same web site. This tool has provisions for printing reports or downloading data.

At the current time we are receiving approximately 45,000 records per year.

#### Point of contact is:

Tom Marcotte Service Difficulty Program Manager Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125

Telephone: (405) 954-6500 9-AMC-SDR-ProgMgr@mmacmail.jccbi.gov

#### **ADDRESS CHANGES**

In the past, the Designee Standardization Branch (AFS-640) maintained the mailing list for this publication. Now, the Government Printing Office (GPO) sells this publication and maintains the mailing list; therefore, please send your address change to: U.S. Government Printing Office, **ATTN: SSOM, ALERT-2G**, 710 N. Capital Street N. W., Washington, DC 20402

You may also send your address change to GPO via FAX at: (202) 512-2168. If you FAX your address change, please address it to the attention of: **SSOM, ALERT-2G**. Whether you mail or FAX your address change, please include a copy of your old address label, and write your new address clearly.

### 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:** Phil Lomax (405) 954-6487 **FAX:** (405) 954-4570 or (405) 954-4748 **Mailing address:** FAA, ATTN: AFS-640 ALERTS, P.O. Box 25082, Oklahoma City, OK 73125-5029

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You can access current and back issues of this publication from the internet at: http://afs600.faa.gov

When the page opens, select "AFS-640" and then "Alerts" from the drop-down menu. The monthly issues of the Alerts are available back to July 1996, with the most recent edition appearing first.

### AVIATION SERVICE DIFFICULTY REPORTS

The following are abbreviated reports submitted between March 23, 2002, and April 23, 2002, which have been entered into the FAA Service Difficulty Reporting (SDR) System data base. 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

These reports contain raw data that has not been edited. 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.

ACFTMAKE	ENG MAKE	COMPMAKE	PARTNAME	PART CONDITION	DIFF-DATE	TTIME
ACFTMODEL	ENG MODEL	COMPMODEL	PART NUMBER	PART LOCATION	OPER CTRL NO.	TSO
REMARKS						
		MCAULY	O-RING	FAILED	03/04/2002	
		2A34C203BC	A1633109	PROPELLER	CA020307007	
AIRTRC			WIRE	CHAFED	03/06/2002	
AT802				FEEDER WIRE	CA020311003	
(CAN) DURING A	NNUAL INSPECTI	ON THE MAIN BUSS FI	EEDER CABLE BETWE	EN THE MAIN 120 AMP CIRCUIT	F BREAKER AND THE (	COCKPIT
BUSSBAR WAS T	TE STRAPPED TO	THE R/H UPPER ENGIN	E MOUNT TUBE AND	WAS CHAFING ON THE 2 BOLT	HEADS THAT SECURE	THE R/H
FORWARDFOAM	I TANK SUPPORT (	CLAMP. THE WIRE WA	S INSPECTED AND FO	UND SERVICEABLE. A STANDO	FF GROMMET WAS IN	STALLED
TO ENSURE ADE	QUATE CLEARAN	ICE BETWEEN THE EN	GINE MOUNT TUBE AN	ND THE CABLE. WIRE #-118		
AMD	GE		SELECTOR	FAILED	03/23/2002	
FALCON20	CF7002D2			MLG	CA020402001	
(CAN) ON MAR 2	3,2002 DURING LE	OG PHASE IN WILMING	STON, OHIO (KILN) PIL	OT INITIATED DEPLOYMENT (	OF LDG GEAR. COCKPI	Т
INDICATOR SHO	WED 3 RED LIGHT	S IDENTIFYING FWD (	GEAR DOOR LATCH U	NLOCKED & NO GREEN LIGHTS	S TO CONFIRM THAT G	EAR
DOORS WERE FU	JLLYOPENED & G	EAR DOWN & LOCKED	D. 2 MORE ATTEMPTS	WERE UNSUCCESSFUL IN OBT.	AINING PROPER INDIC	ATION.
SUBSEQUENTLY	, PILOT CONTACT	ED WILMINGTON CEN	TRE & COMPLIED WIT	TH THEIR INSTRUCTIONS. PILO	Γ THEN PROCEEDED W	/ITH
EMERGENCY CH	ECKLIST & MANU	JALLY UNLOCKING OI	F GEAR, FOLLOWED B	Y EMERGENCY GEAR EXTENS	ION FROM A/C HYDRA	ULIC SYS
NR 2. PROPER GI	EAR					
AMTR			ROD END	FAILED	03/28/2002	150
VIPERJET			MM6	MLG	2002FA0000461	
ROD END FAILEI	D DUE TO SIDE LC	DADS AFTER LANDING	(OR DURING).			

BAG	GARRTT	WIRE	BROKEN	04/02/2002
JETSTM3101	TPE33110UG	622800200	MLG	CA020404002
(CAN) ON APPRO	ACH THE PILOT NOTICED THAT THE N FEIN THE INDICATION A FLY PAST WAS	OSE GEAR WAS NOT IT	NDICATING DOWN AND LOCKE FERMINE THE GEAR STATUS A	ED. AFTER CYCLING THE GEAR
WASLIKELY DO	WN AND LOCKED A LANDING WAS ATT	TEMPTED WITH ERS O	N STANDBY. THE LANDING WA	AS SUCCESSFUL.ON
INVESTIGATION	A WIREWAS FOUND TO BE BROKEN AB	OUT 12 BBAVIA	CONT	SPAR
CRACKED	06/25/2001 1905		DTWDIC	20025 4 00002 47
TROUBLE AREA	0200* IN THE REGION OF LIFT STRUT ATTACE	IMENT POINT REMOV	ED VARNISH AND SMALL AMO	2002FA0000347
SMALL CRACK I	N THE GLUE JOINT ON REAR FACE OF R	T REAR WING SPAR. A	LSO DETECTED ON UPPER EDO	GE OF RT REAR SPAR A TOTAL OF
5COMPRESSION	TYPE CRACKS. TWO ACTUAL SPLITS W	ERE REVEALED STAR	TING AT THE REINFORCING PL	YWOOD PLATE. FOLLOWED
EDGE GRAIN OF	WOOD FRO ABOUT 2 AND 3 INCHES. TV CEOE ABOUT 40,50 PEP, CENT OF THE W	VO OF THESE CRACKS	EXTENDED DOWN THROUGH	SPAR, AT PLY WOOD PLATE
EDGES CHAMFE	RED(TAPERED) AT LEAST .7500 INCH, H	ELP IN REDUCING STR	ESS RISER CRATED AT VERTIC	AL EDGE OF
BBAVIA	CONT	SPAR	DAMAGED	03/18/2002
7ECA	0200*		RT WING	2002FA0000356
ORIGINATING F	ROM THE NAIL HOLES. AIRPLANE HAD	BEEN USED IN AEROB	BATICS. REPLACED ALL FOUR	WING SPARS.
BEECH	PWA	TIRE	UNBONDED	03/26/2002
1900C	PT6A65B	114800115	NLG	CA020403002
(CAN) AIRCRAFT	DEPARTED PRINCE GEORGE, PILOTS FE	TH NO VISIBLE DEFEC	TS THE AIRCRAFT WAS TEST F	LOWN NO NOTICEABLE
VIBRATION WAS	FELT AND AIRCRAFT RETURNED TO SE	ERVICE. NEXT DAY ON	ROLL OUT PILOTS FELT VIBRA	TION AND ABORTED TAKEOFF.
AIRCRAFT WAS	AGAININSPECTED AND TEST FLOWN.O	NLY IF AIRCRAFT WAS	S ON LONG HIGH SPEED ROLLO	UT DID DEFECT REOCCUR. THE
NOSE WHEEL WA	AS DISASSEMBLED AND THE BALANCE	WEIGHT ON THE INNI	ER PORTION OF THE TIRE WAS	FOUND UNBONDED. THE TIRE
BEECH	PWA	LINE	CHAFED	03/27/2002
1900D	PT6A67D	11892000029	FUEL TRANSFER	CA020405003
(CAN) THE L/H F	UEL CROSS TRANSFER TUBE WAS FOUN	ND CHAFED THROUGH	I AND SEEPING FUEL. THE WEA	AR MARK ON THE TUBE
COVERING OF TH	HE GEAR UPLOCK MICROSWITCH THE I	78 INCH IN WIDTH. RE	ED CLEAR AFTER FUEL TUBE R	ED FROM THE WIRE BUNDLE
OPARATORS CHI	ECK THIS AREA.THE FUEL TUBE WAS RI	EPLACED AND AIRCRA	AFT RETURNED TO SERVICE.	
BEECH	PWA	LATCH	FAILED	03/20/2002
200BEECH (CAN) AFTER TA	PT6A41 KEOFE CALGARY (CYYC) CLIMBING TI	1014300291 HROUGH 14 000 FEFT '	AIRSTAIR DOOR THE CREW AND PASSENGERS I	CA020403006 HEARD A LOUD BANG THEN THE
CABIN AIRSTAIR	A DOOR DROPPED OPEN. THE CREW DEC	CLARED AN EMERGEN	ICY TO ATC, INSTITUTED AN E	MERGENCY DESCENT AND
TURNED BACK F	OR CALGARY WHERE THEY LANDED W	VITHOUT FURTHER INC	CIDENT. THE CAUSE OF THIS D	OOR FAILURE IS NOT FULLY
KNOWN AT THIS	TIME, BUT IT DOES APPEAR THAT THE	FORWARD UPPER LAT	ICH HOOK ASSEMBLY FAILED.	REPORTS ON THE EXACT CAUSE
BEECH	PWA	COMPRESSOR	FAILED	02/23/2002 17593
200BEECH	PT6A41		RT ENGINE	CA020306001
(CAN) THE AIRCI	RAFT WAS IN CRUISE FLIGHT AT FL2000	0. THERE WAS A LOUI	D BANG THAT SHUCK THE AIRC	CRAFT AND FLAMES
APPEAREDCOMI	NG OUT OF THE EXHAUST STACKS. TH THERE WAS A SMALL AMOUNT OF FLAM	E ENGINE WAS SHUT I ME NOTICED IN THE LO	DOWN AND FEATHERED. FLAM DUVERS OF THE BLEED AIR VA	LVE OUTLETS THAT
EXTINGUISHED	AFTER A BRIEF PERIOD. THE AIRCRAFT	CONTINUED AND LAN	NDED WITHOUT ANY FURTHER	DIFFICULTIES.
BEECH	PWA PWA	SHAFT	SHEARED	03/18/2002
200BEECH (AUS) RH FNGIN	PT6A42 PT6A42 F AIRCONDITIONING COMPRESSOR PUI	1155550259 LLEY DRIVE OUILL SH	TURBINE ENGINE A IAFT SHFARED I OSS OF ENGI	AUS20020262 NF OIL
BEECH		STRUT	CRACKED	02/14/2002
35B33		358152607	RTMLG	CA020215013
(CAN) ON INSPEC	CTION PISTON LOWER SHOCK TUBE WA	S FOUND WITH CHRO	ME BLISTERED. NDT SHOWED	A CRACK IN TUBE.CHROME WAS
THROUGH THE T	UBE.		of of the tobe. The coack	KAN HORIZOWIAL FOR 1 1/2 INCH
BEECH	CONT	GAUGE	MISMANUFACTURE	03/11/2002
58	IO550*	0023810025	FUEL SIGHT GAUGE	2002FA0000385
GAUGE, THIS DI	FFERENCE CAUSED FLOAT ARM TO CO	WAS FOUND THE NEW NTACT LEADING EDG	E CURVE AND GAUGE WOULD	NOT READ BELOW 45 GALLONS.
WHEN ADDITION	NAL PART WAS ORDERED, ANOTHER GA	AUGE WAS ALSO INDE	EXED WRONG. PARTS RETURN	ED TO FACTORY.
BEECH	CONT	ADAPTER	FAILED	04/08/2002 493
58P PILOT REPORTEI	I SIO520WB D ENGINE WOLLD NOT START, FOUND '	64208/A10 THAT PROP WOLLD N	STARTER OT TURN BACKWARDS REPLA	2002FA0000456 CED STARTER ADAPTER WITH A
REBUILT AND O	PS CHECKED OK. THIS IS THE SECOND A	ADAPTER REPLACED (	ON THIS ENGINE. THE FIRST ON	IE FAILED ON A FACTORY
REBUILT/ZERO T	TIME ENGINE WITH 402 HOURS ON IT. TH	HE SECOND ONE, WHIC	CH WAS A FACTORY REBUILT A	DAPTER, FAILED WITH 493
HOURS ON IT. BEECH	LYC	BRUSHES	WORN	03/02/2002
76	O360A1G6D	HYC5005	HYD MOTOR	CA020313003
(CAN) LANDING	GEAR HYDRAULIC POWER PACK MOTO	OR DID NOT RUN. AIRC	CRAFT PUT ON JACKS & GEAR S	SELECTED UP, WITH A LIGHT TAP
ON MOTOR GEAL	R RETRACTED NORMALLY WITHIN ALL	OWABLE TIME LIMITS	S. SAME PROBLEM OCCURRED	WHEN GEAR SELECTED BACK
PERIODICALLY I	BUT IT IS NOT A REQUIREMENT TO INSP	PECT I.A.W. BEECH 76 N	MAINTENANCE SCHEDULED. W	ES ARE INSPECTED
ARE BREAKING	DOWN IN MOTOR CAUSINGUNUSUALL	Y SHORT LIFE OF BRU	SHES, MOTOR AND POWER PA	CK ASSEMBLY REPLACED.
AIRCRAFT TESTI	ED SERVICEABLE. BRUSHES SHOULD B	EINSPECTED NO LESS	THAN 500 HOURS.	02/07/2002
A100	PWA PT6A28	508202085	MLG	CA020322007
(CAN) AFTER TA	KEOFF GEAR WAS SELECTED UP, BUT S	SHOWED A RED LIGHT	'IN GEAR HANDLE. GEAR WAS	CYCLED WITH SAME RESULTS.
GEAR WAS THEN	N SELECTED DOWN AND AIRCRAFT CON	NTINUED TO DESTINAT	TION. CREW THEN NOTICED TH	IAT THE NOSE GEAR DOWN
FAULTY UP POSI	L11. AIKCKAF1 DID 2 FLYOVERS TO CO TION SWITCH, NOSE GEAR IN DOWN P	NFIKM GEAK WAS DO OSITION WAS NOT FU	WIN. AIKUKAFI LANDED SAFEL LLY DOWN, NOSE GEAR ACTU	ATOREND PLAY FOUND TO RE
OUT OF LIMITS.	REPLACED UP POSITION SWITCH AND N	IOSE GEAR ACTUATOR	R, RIGGED GEAR, AND RETURN	ED AIRCRAFT TO SERVICE.

A / 1 / 1 / 1 / 1			HINGE	CORRODED	04/05/2002	12787
A200	DDED UINCE ASS	EMDI V WAS DEMOVE	10164001419	RUDDER	2002FA0000450	
EDGE OF THE LO	WER RIGHT HAN	D BOLT HOLE ON THE	TEE. WHEN THE TEE V	VAS DERIVETED FROM THE HI	NGE SUBSTANTIAL EX	FOLIATION
WAS FOUNDON	THE TEE SURFAC	E WHICH BUTTS UP AC	GAINST THE HINGE. SU	BSTANTIAL PITTING WAS FOU	ND ON THE ADJOININ	G SURFACE
OF THE HINGE. T	HE EXFOLIATED	AND PITTED AREAS A	RE NOT VISIBLE WHEN	N THE HINGE IS IN THE ASSEMI	BLED POSITION. EXFO	LIATION
AND PITTING CC	OULD HAVE PROP	AGATED UNDETECTE	D TO THE POINT OF HI	NGE FAILURE. THE HINGE/TEE	E INTERFACE SHOULD	BE
BEECH	LYC	EVENT CORROSION.	MOUNT	CORRODED	02/22/2002	
A2324	IO360A1B		moenti	FUSELAGE, STABIL	AUS20020259	
(AUS) STABILAT CORRODED AND	OR MOUNTING BI THE RIVETS COR	LOCK RIVETS SHEARE RRODED.	D. INVESTIGATION FO	UND THE UNDERSIDE OF THE A	ATTACHMENT BLOCK	BADLY
BEECH	CONT		SHAFT	FAILED	04/10/2002	
A36	TSIO550B	A LOGG OF OUL DEFE	649866	STARTER ADAPTER	2002FA0000463	<b>N</b> 7
REVEALED A EA	NE EXPERIENCEL II URE OF THE ST	A LOSS OF OIL PRESS	FT ( PN 649866)	NT LOSS OF POWER. ENGINE II	EARDOWN INSPECTIO	2 <b>N</b>
BEECH	CONT	ARTER ADAI TER SITA	FITTING	MALFUNCTIONED	03/02/2002	
B35	E185*		354051303	STAB ATTACH	2002FA0000377	
LOOKED AT RUD	DERVATORS MO	VEMENT, THIS FITTING	WAS MOVING, CALLE	ED MANUFACTURER FOR INFO	RMATION ON THIS FIT	TING.
BEECH	CONT	SLICK	BRUSHES	WORN	04/02/2002	504
MAGNETO REMO	VED FROM ENGL	NE FOR 500 HOUR INSP	PECTION IAW MM REM	INTERIOUTOR	THE DISTRIBUTOR BL	OCK FROM
MAGNETO AND	FOUND THE CARL	BON BRUSH WORN. CA	RBON DUST WAS FOU	ND ON THE FLAT PART OF THE	E CAP. THE WEARER O	N THIS
BRUSH IS ABOVI	E NORMAL FOR 5	00 HOURS. (PN M3004 E	BRUSH)			
BEECH	CONT		PUMP	INACCURATE	03/11/2002	1
F33A LINABLE TO ADI	IO520BB UST FUEL PUMP I	PRESSURE PRESSURE	64621216A2 IS TO HIGH AT LOW RI	FUEL SYSTEM PM AND THE ADJUSTMENT SCE	2002FA0000389 2FW BACK ALL THE W	AY OUT
PUMP REMOVED	AND SENT IN FO	R WARRANTY.	b to month Low Ki	MAND THE ADJOSTMENT SCI	L' BACKALL IIL W	
BEECH	PWA		CYLINDER	CORRODED	03/14/2002	7201
F90	PT6A60A		998201005	MLG	2002FA0000430	
WHILE PERFORM	AING 6 YEAR LAN	IDING GEAR INSPECTI	ON IAW MFG SPECIAL	. INSPECTION, FOUND CYLIND	ER ASSEMBLY IN NOS	SE GEAR
REFCH	KROSION ON INT	BEECH	TURNBUCKLE	SEPARATED	03/26/2002	5050
S35		belen	TORIGOCIAL	AILERON CABLE	2002FA0000420	5050
WHILE IN LEVEL	FLIGHT AT 5500F	T MSL, ATTEMPTING	TO TURN THE AIRCRAI	FT LEFT WITH THE AILERON A	SMALL BUMP/BANG W	VAS FELT.
THE CONTROL W	HEEL WENT FUL	L LEFT, AND THE AIRC	RAFT COMMENCED R	OLLING TO THE RIGHT. APPLIC	CATION OF HARD RIGH	IT RUDDER
STOPPED THE RU	DECREES LEET	DEGREES RIGHT WIN	J DOWN. AIKCKAFT W	GREES PT WING DOWN I AND	G 2200F1. FLEW TO KS	W BY
THE SAME TECH	NIOUE. ON GROU	IND. RIGHT AILERON	WAS HELD FULL UP A	ND LEFT AILERON FULL DOWN	NO WAS ACCOMPLIS	L USING
BELL			RIB	CRACKED	03/21/2002	10170
206B			206020123048S	HORIZONTAL STAB	JJWA078248	
REMOVED BOTH	HORIZONTAL ST	ABILIZERS THAT HAD	BEEN LAST INSTALLE	ED OVER 5 YEARS AGO. FOUND	EXCESSIVE CORROSI	ON IN SPAR
REMOVED BOTH CLAMP AREA ON CORROSION & PI	I HORIZONTAL ST NRIB CLOSEST TO IFCF MISSING SO	ABILIZERS THAT HAD TAILBOOM. REQUIRE REPLACED 206-020-12	BEEN LAST INSTALLE S TOTAL RIBE REPLACE 3-0475 RIB ON THAT SI	ED OVER 5 YEARS AGO. FOUND CEMENT OF \$1966 RIB. INSPECT DF ALSO. THIS IS SECOND REP	EXCESSIVE CORROSI	ON IN SPAR HAD FAR ON
REMOVED BOTH CLAMP AREA ON CORROSION & PI SAME PARTS. SU	I HORIZONTAL ST N RIB CLOSEST TO IECE MISSING SO IGGEST BELL HEI	ABILIZERS THAT HAD TAILBOOM. REQUIRE REPLACED 206-020-12: LICOPTER INSERT A 3	BEEN LAST INSTALLE S TOTAL RIBE REPLAC 3-047S RIB ON THAT SI YEAR INSPECTION IN 1	ED OVER 5 YEARS AGO. FOUND CEMENT OF \$1966 RIB. INSPECT DE ALSO. THIS IS SECOND REP MAINTENANCE MANUAL, ESPE	EXCESSIVE CORROSI TED OTHER RIB ALSO ORT IN LESS THAN YE CIALLY WHEN AIRCR	ON IN SPAR HAD EAR ON AAFT IN
REMOVED BOTH CLAMP AREA ON CORROSION & PI SAME PARTS. SU CORROSIVE ENV	I HORIZONTAL ST NRIB CLOSEST TC IECE MISSING SO IGGEST BELL HEI IRONMENT LIKE	ABILIZERS THAT HAD D TAILBOOM. REQUIRE REPLACED 206-020-12: LICOPTER INSERT A 3 Y THE STATE	BEEN LAST INSTALLE S TOTAL RIBE REPLAC 3-047S RIB ON THAT SI YEAR INSPECTION IN 1	ED OVER 5 YEARS AGO. FOUND CEMENT OF \$1966 RIB. INSPECT DE ALSO. THIS IS SECOND REP MAINTENANCE MANUAL, ESPE	EXCESSIVE CORROSI TED OTHER RIB ALSO ORT IN LESS THAN YH CIALLY WHEN AIRCR	ON IN SPAR HAD EAR ON EAFT IN
REMOVED BOTH CLAMP AREA ON CORROSION & PI SAME PARTS. SU CORROSIVE ENV BELL	I HORIZONTAL ST N RIB CLOSEST TO IECE MISSING SO IGGEST BELL HEI IRONMENT LIKE ALLSN	ABILIZERS THAT HAD D TAILBOOM. REQUIRE REPLACED 206-020-12: LICOPTER INSERT A 3 Y THE STATE	BEEN LAST INSTALLE IS TOTAL RIBE REPLAC 3-047S RIB ON THAT SI YEAR INSPECTION IN N VENT LINE	ED OVER 5 YEARS AGO. FOUND CEMENT OF \$1966 RIB. INSPECT DE ALSO. THIS IS SECOND REP MAINTENANCE MANUAL, ESPE PLUGGED	EXCESSIVE CORROSI TED OTHER RIB ALSO ORT IN LESS THAN YH CIALLY WHEN AIRCR	ON IN SPAR HAD EAR ON EAFT IN
REMOVED BOTH CLAMP AREA ON CORROSION & PI SAME PARTS. SU CORROSIVE ENV BELL 206B (CAN) DURING S	I HORIZONTAL ST N RIB CLOSEST TC IECE MISSING SO IGGEST BELL HEI IRONMENT LIKE ALLSN 250C20J CHED 100/ANNU/	ABILIZERS THAT HAD TAILBOOM. REQUIRE REPLACED 206-020-12: JCOPTER INSERT A 3 ' THE STATE	BEEN LAST INSTALLE IS TOTAL RIBE REPLAG 3-047S RIB ON THAT SI YEAR INSPECTION IN N VENT LINE	ED OVER 5 YEARS AGO. FOUND CEMENT OF \$1966 RIB. INSPECT DE ALSO. THIS IS SECOND REP MAINTENANCE MANUAL, ESPE PLUGGED FUEL CELL HELICOPTER WE PROCEEDED	EXCESSIVE CORROSI TED OTHER RIB ALSO ORT IN LESS THAN YH CIALLY WHEN AIRCR 03/19/2002 CA020322009 TO CHECK OP OF LOD	ON IN SPAR HAD EAR ON EAFT IN
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BELL	PWA	PRESSURE	FAILED	02/23/2002	
412	PT6T3B	7G1075	FUEL PRESSURE IN	AUS20020157	
(AUS) FUEL PRES	SSURE SWITCH INTERNAL FAILURE. FU	EL LEAKING FROM BO	DDY.		
BELL	ALLSN	OIL TANK	CRACKED	03/15/2002	1570
430	250C*	222065505161	ENGINE OIL	2002FA0000396	
OIL LEAKING AR	OUND NR 1 INPUT DRIVE ON MAIN TRA	NSMISSION. DISCOVE	RED CRACK IN THE BOTTOM C	OF NR 1 ENGINE OIL TA	ANK
APPROXIMATEL	Y 1.5000 INCHES LONG AT THE BOTTOM	I OUTLET.			
BELL	ALLSN	NOZZLE	FAILED	03/22/2002	
TH5/A	250C18A	23007189	TURBINE SECTION	HEEA078253	
OVERHALLED N	VED FOR OVERHAUL, LOW AREA FLOW	TO 2	WER ON TEST CELL. POWER WI	ENT FROM -5.5 TO -7.0	
BOLKMS	ALLSN	IU-5. BELLOWS	FPOZEN	03/15/2002	
BO105S	250C20B	V51313842CR764	DUSTBOOT	CA020327007	
(CAN) WATER H	AD FROZEN IN DUST BOOT AND RESTRI	CTED MOVEMENT OF	LONGITUDINAL CONTROL ROI	D. BELOW HYDRAULI	C PACK. ICE
REMOVED, THAN	WED, DRIED OUT AND LIGHTLY SPRAYI	ED WITH METHYL ALC	COHOL TO REMOVE ANY FURT	HER MOISTURE.	
CESSNA	CONT	MAGNETO	FAILED	01/15/2002	
150F	O200*	441	ENGINE	2002FA0000411	
INSTALLED NEW	CONDENSER DURING MAGNETO INSP	ECTION. RUN-UP WAS	S NORMAL. FULL POWER DURI	NG TAKE-OFF SHOWE	ED ROUGH
RUNNINGENGIN	E. FURTHER INSPECTION OF MAGNETO	REVEALED THAT NE	W M3064 CONDENSER HAD FAI	ILED.	
CESSNA	CONT	CASTING	CORRODED	03/04/2002	
150L	0200A	627307A	RT MAG OPENING	CA020307010	ND
(CAN) WHILE KE	MOVING COMPONENTS OFF OF THE AC	CASTING WAS DEDLA	ELATED REPAIR) DISCOVERED	VER DEEP PITTING A	ND
CESSNA	CONT	CEAP	BROKEN	03/04/2002	
150L	0200A	22355	OIL PUMP	CA020307015	
(CAN) PILOT RET	URNED TO BLOCKS AND SHUT ENGINE	DOWN AFTER NOTIC	ING THAT THE RPM GAUGE WA	AS UNSERVICABLE, U	PON
FURTHER INSPEC	CTION FOUND THAT THE UPPER OIL PU	MP GEAR, WHICH IS A	LSO THE TACHOMETER DRIVE	SHAFT. HAD SPLIT. T	HE PIECE
WAS RECOVERE	D. AND THE GEAR / SHAFT WAS REPLAC	CED WITH NEW. THE R	RESULTING DEFECT MAY HAVE	E ALSO CAUSED SOME	E WEAR TO
THE BUSHING A	ND OIL PUMP HOUSING.				
CESSNA	CONT	BUSHING	FAILED	04/12/2002	14
150M	O200A	SA24122	ROCKER ARMS	2002FA0000495	
EIGHT BUSHING	S FAILED WITHIN 15 HOURS OF OPERAT	ION. THE PROBLEM W	AS INDICATED BY BRASS MET	ALIC DUST IN THE OI	L FILTER.
THIS LOOKED SI	MILAR TO METALIC PAINT FLAKE SUSP	PENDED IN THE OIL. T	HE ROCKER ARMS WERE REMO	OVED AND BUSHING (	CLEARANCE
WAS MEASURED	). THE WEAR WAS BETWEEN .006 AND .0	09. MANUFACTURERS	S NEW LIMIT IS .0025 AND SERV	ICE LIMIT IS .004.	
CESSNA	E MAY BE DEFECTIVE MATERIAL.	TOPOLIETUPE	PROVEN	04/05/2002	50/1
152	0235*	04115261	I T RUDDER PED	2002FA0000472	5941
PILOT LEFT RUD	DER PEDAL TOROUE TUBE BROKE AT V	VELD FOR PEDAL ARN	A RESULTING IN PILOT HAVIN	G REDUCED OR NO LI	EFT
RUDDER OR NOS	SE STEERING, POSSIBLY CAUSED BY A I	DEFECTIVE WELD.		G REDUCEED OR NO E	
CESSNA	LYC	CRANKCASE	DAMAGED	03/05/2002	
152	O235L2C	LW13282	ENGINE	CA020312008	
(CAN) DEFECT O	BSERVED DURING ROUTINE MAINTENA	NCE. OIL LEAKING FF	ROM CRANKCASE LT HALF NEA	AR CENTRE BOLTS TH	AT SECURE
CASES TOGETHE	R. FURTHER INSPECTION REVEALED A	PIN HOLE THAT APPE	ARS TO ORIGINATE FROM WIT	HIN/INTERNAL TO TH	E
CRANKCASE. EN	GINE REMOVED SENT TO APPROVED O	VERHAUL STATION F	OR INSPECTION AND POSSIBLE	E REPAIR.	
CESSNA	LYC	BEARING	MISSING	02/04/2002	
172M	O320E2D PM1201	THE CONTING CONT	STARTER	CA020325003	RECINIC
(CAN) PILOT OF	AIRCRAFT FOUND "A PART" BENEATH	THE COWLING, COWL	INGS WERE REMOVED & ENGI	NE INSPECTED FOR "I	MISSING
STILL ENGAGED	TO FLYWHEEL AT THIS TIME LOSS OF	D MISSING ON LAMAI	ED STARTER, PILOT REPORTED	FURTHER THAT STAR	IEK WAS
CRANKSHAFT A	ND LOCKED BENDIX GEAR ONTO ELYW	HEFL SARTER REPLA	CED WITH SERVICEABLE UNIT	OLD UNIT B F R SCR	PAP
CESSNA	LYC	SPRING	BROKEN	02/13/2002	
172M	O320E2D	03101965	RUDDER CONTROL	CA020213007	
(CAN) RUDDER V	VAS ANGLED TO ONE SIDE UPON FURTI	HER INSPECTION FOU	ND THAT IT WOULD NOT RETU	RN TO NEUTRAL.RUE	DER
SPRING WASFOL	IND HANGING IN POSITION DETACHED	FROM ONE SIDE, THE	END HAD BROKEN OFF. PART	WAS REPALCED AND	AIRCRAFT
WAS RETURNED	TO SERVICE.				
CESSNA	LYC	HOSE	SATURATED	04/03/2002	61
172N	O320H2AD	LW18101	INDUCTION SYS	2002FA0000505	
THE RUBBER INI	DUCTION COUPLING HOSES ON THE EN	GINE WERE FOUND TO	D BE SATURATED WITH FUEL. I	TAPPEARS THE FUEL	2 WAS
I W18101 HOSES	OTT THIS TIME	I WERE REPLACED A	1 62 FLIGHT HOURS AND 9 MOI	VIDS EAKLIEK. INSTA	LLED
CESSNA	LYC BENDIX	COIL	WRONG PART	02/24/2002	
172N	O320H2AD 1068255514	10382588	MAGNETO	CA020308006	
(CAN) NEW OVE	RHAUL ENGINE. ENGINE 25 HOURS. EN	GINE VERY ROUGH BA	ACKFIRE, NO POWER, POINTS I	DEEPLY PITTED, BRUS	SH
ASSEMBLY WOR	N AT 25 HOURS. CANADIAN AIRCRAFT	COMPONENT CORD S	TRIP REPORT W/O 2244.4) WROM	NG PART NUMBER CO	IL FOR THIS
MAGNETO 10-382	2588 18 FOR 8 CYLINDERS ENGINE. 5) PA	ARTS REQUIRED:COIL	10-382790 QTY 2 BRUSH 10-1608	844 QTY 2 CONTACT A	ASSY10-
382585 QTY 2					
CESSNA	LYC	SKIN	CRACKED	04/01/2002	590
172R	IO360A1A		LT WING	2002FA0000507	
URDER AND LOW	JPED IN TOP 1/E LT WING SKIN AT EXTR	ACKS DANCED EDOM	AROUND 4 OF AN426AD4 RIVE	STS WHICH JOIN 1/E S	VET UOLE
ONE OF PIVETS	EK WING SKINS JUST ADOVE FLAP. CK	N HAD CDACK NEVT T	O IT I INCH I ONG CAUSED BY	TUE EVTDEME AET W	IVET HOLE.
FAIRING SCREW	CONTACTING THE UPPER SKIN (SCREW	INSTALLED WAS TO	OLONG) FLUSH PATCH APPRO	X 9 INCH X 4 INCH W	ITH
DOUBLER, WAS	INSTALLED AFTER REMOVING THE WIN	IG TO GAIN ACCESS T	O AREA. WING REMOVAL NECH	ESSARY DUE TO FILLE	ET ASSY OF
THE FUSELAGE	WHICH OVERLAPS WING AND COVER TH	E RIVET LINE OF EXT	REME IB RIB.		
CESSNA	LYC	MANIFOLD	DETACHED	03/26/2002	2921
172R	IO360L2A	1H525	<b>VACUUM SYSTEM</b>	2002FA0000399	
THIS AIRCRAFT	USES DUAL VACUUM PUMPS. THESE PU	MPS ARE CONNECTED	TO THE VACUUM SYSTEM VIA	A MANIFOLD ASSEM	BLY. THIS
MANIFOLD PERF	ORMS TWO IMPORTANT FUNCTIONS, O	NE TO ALLOW FOR A	COMBINED SOURCE OF VACUU	M FROM THESE TWO	PUMPS, AS
WELL AS PROVID	DE AN ISULATION FUNCTION SHOULD (	JNE PUMP FAIL. THIS	MANIFULD VALVE, IS ASSEME	SLED USING SMALL A	LUMINUM
KIVEIS, IHEY H	ave deen failing Allowing THE MA	MIFULD VALVE IUSE	CTARATE WHILE MOUNTED ON	I DE FIKEWALL, I'HIS JE SVSTEM	KENDEKS
THE ENTIKE VAC	JUDINI STSTEINI IININOPEKATI VE, AND CO	MITLETELT DISCONNE	2C13 THE TWO PUMPS FROM T	IL SISIEWI.	

CESSNA			PIVOT	UNAPPROVED	03/18/2002
172RG				MLG PEPOPTING UNAPPPOVED PA	CA020325004
PARAGRAPH (2)(	C). LANDING GEAI	R PIVOTS DISCOVERI	ED WHICH HAD MATE	RIAL REMOVED IN ORDER TO A	ADDRESS THE ISSUES RAISED BY
CESSNA	LYC		FUEL TANK	CRACKED	04/02/2001 613
1728	IO360A1A		051600918	FUSELAGE	2002FA0000345
DURING GROUN	D RUN, DETECTED	FUEL SMELL IN COO	CKPIT. REMOVED FOR	WARD FLOOR PANS AND OBSE	RVED FUEL PUDDLE AND STAIN
INSPECTION REV	VEALED STAINING	ON RESERVOIR TAN	K. DEFUELED AIRCRA	FT AND REMOVED RESERVOIR	TANK. STRIPPED PAINT FROM
SUSPECTED CRA	ISE: STRESS DUE T	O UPPER MOUNT HO	LE NOT ALIGNED WIT	'H NUT PLATE.	EFLACED WITH NEW FART,
CESSNA	LYC	CESSNA	BULKHEAD	CRACKED	03/01/2002
172S	IO360L2A	055032111	055032111	SPINNER	CA020301004
(CAN) SPINNER	WAS NOTICED DEP	FORMED DURING GR	OUND HANDLING.SPI	NNER BULKHEAD FOUND CRA	CKED AND FLANGE SEPERATE
CESSNA	IACORP	•	CYLINDER	SEPARATED	03/11/2002
195	R755A2		4300C	ENGINE	AUS20020283 271
(AUS) ENGINE C	YLINDERS (20FF) I	LEAKING PAST EXHA	UST VALVE. DURING	CYLINDER REMOVAL THE CYI	LINDER HOLD DOWN NUTS WER
FOUND TO BE LO	DOSE. RED SILICON	VE SEALANT WAS AL	SO FOUNDS AROUND	THE BASE OF THE CYLINDERS	AND STUCK TO THE CYLINDER
CESSNA	CONT		LINK	FAILED	02/07/2002
210D	IO520*		LINK	NLG	2002FA0000437
NOSE GEAR FAII	LED TO EXTEND FO	OR LANDING, DAMAG	GING ENGINE, PROPEL	LER, GEAR DOORS AND NOSE	TIRE. AFTER JACKING AIRCRAFT
IT WAS DISCOVE	ERED THAT ROLLE	R ON MECHANICAL	LINKAGE FOR NOSE G	EAR DOORS HAD MOVED ON M	AECHANICAL LINKAGE FOR NOS
GEAR DOORS HA	AD MOVED FORWA	RD AND LOCKED IT	SELF UNDER NOSE GE	AR FORK. THIS LINKAGE IS AL	SO SPRING LOADED. IT WAS
GEAR FORK EAR	LY EXTRA LINK V	VAS ATTACHED WIT	HONLY ONE BOLT AN	D THIS ALLOWED LINK AND R	OLLER TO MOVE FORWARD
GETTING LOCKE	ED UNDER NOSE GI	EAR FORK WHEN GE	AR WAS RETRACTED.		
CESSNA	CONT		RIB	CRACKED	02/26/2002 8825
310P	IO470*		082217569	LT WING	2002FA0000346
ATTACH BOLT W	VAS MISSING AND 1	CATION HAD CRACK	$\Gamma$ THAT PROPAGATED ING ON THE SURFACE	THE FULL UPPER AREA OF THE	TIDE BRACE. THE FORWARD
AREA AT ANNU	AL.	E VIDENCE OF STIMU	into on me som nee	of the kib. At the off was the	LD DT 2 TIIKEADS. INSTECTED
CESSNA	CONT		BOOT	DESTROYED	03/12/2002 479
310R	IO520*		6592SW	LT PROP BOOT	2002FA0000446
DURING FLIGHT	, ONE PROP BOOT I	DEPARTED AIRCRAF	T. UPON INSPECTION I	T WAS DETERMINED THAT TH	E PAINT DID NOT ADHERE TO
CESSNA	CONT	OUT CAME LOUSE.	CYLINDER	FAILED	03/22/2002
340A	TSIO520E		SA52000A1	LT ENGINE	2002FA0000452
IN FLIGHT, PILO	T NOTICED REDUC	TION IN MANIFOLD	PRESSURE. PILOT DES	CENDED WHEN COMPLETE FA	ILURE AND SEPARATION OF TH
NR 4 CYLINDER	ON THE LEFT ENG	INE OCCURRED. CYL	INDER HEAD SEPARA	TED FROM BARREL. ENGINE W	AS SECURED AND SHUT DOWN.
CESSNA	CONT	KAFI LANDED SAFEI	FUSFABLE PLUG	OPEN	03/17/2002
414A	TSIO520NB		TODENDEE TEOO	EMER BLOWDOWN	CA020325006
(CAN) NORTHWE	EST OF CALGARY (	CYYC)APPROX. 15 M	INS AFTER TAKEOFF, A	A/C SUFFERED TOTAL ELECT. F	AILURE: EMERG DESCENT
INITIATED. ATC	INFORMED. EMER	G DECLARED, & PILO	T ALTERED COURSE F	OR RED DEER, ALBERTS (CYQE	F). LDG GEAR COULD NOT BE
SUCCESSEUL ON	KMAL MANNER BE	CAUSE ELECT. POW	ER IS REQUITO OPERA	I E UP/DOWN SELECTOR VALV	TE. EMERG GEAR EXTENSION NC
BECAUSE OF SUI	PERIOR EMERG SR	VCS. PILOT MADE CC	NTACT WITH MAINT F	PERSONNEL & AFTER DISCUSSI	ON A/C COMMITTED TO LDG -
WHEELS UP - AL	ONGSIDE RWY 20,	WHICH COMPLETED	W/O SERIOUS DAMA	GE TO A/C.	
CESSNA			HYDRAULIC	CONTAMINATED	03/21/2002
421C EXTENDED THE	MI G ON APPROAC	'H AND ONI Y THE I '	ΓΙ ΟСΚΈΡΙΝΤΟ ΡΙ ΔΟΙ	MLG F NOTIFIED TOWER OF THIS CO	N421DG030102
WHILE WORKIN	G ON THE PROBLE	M. INITIATED THE A	PPROACH AGAIN AND	EXECUTED EMERGENCY PRO	CEDURES, ONLY LT MAIN WAS
LOCKED, THE LA	ANDING WAS INITI	ATED AND THE A/C	FOUCHED DOWN WITH	HLT DOWN AND LOCKED, THE	RT WAS PARTIALLY EXTENDED
BUT NOT LOCKE	D, THE NOSE GEAR	R WAS EXTENDED BU	JT IT WAS NOT LOCKE	D. NLG STAYED EXTENDED ON	NROLL OUT AND THE RT WING,
MATER WAS FOI	IND IN SHOP AT 6	INED DAMAGE. HYD 0 DEG F THE MI G EU	MLG 515 WAS INSPEC	Y IT APPEARS THAT MOISTUR	AND A SMALL AMOUNT OF
CESSNA		O DEGT THE MEGTO	TUBE	MELTED	03/07/2002
425			CM36914	PNEUMATIC TUBE	2002FA0000406
RIGHT INSTRUM	ENT AIR PRESSUR	E WAS AT ZERO ON T	THE GROUND AND WO	ULD INCREASE AS CABIN PRES	SSURE INCREASED IN FLIGHT.
FOUND PNEUMA	DWA	FROM COMMON TEE	HOSE	URE BULKHEAD MELTED. REP.	04/18/2002 365
425	PT6A112		AE7013002K024	ENGINE OIL	2002FA0000503
HOSE WAS INST.	ALLED ON 10-15-99	1869.1TT. CURRENT	AIRCRAFT TIME 2234.8	HRS. THIS HOSE LASTED 365.7	HRS. THIS HAS BEEN ANON
GOING PROBLEM	M WITH THIS AIRC	RAFT. CESSNA SUPE	RSEEDED THE ORIGNA	AL HOSE P/N AS705976-1 TO TH	E AE7013002K024 WHICH IS
SLIGHTLY LONG	ER, IN HOPES TO C	ORRECT THE PROBLI	EM, BUT THE PROBLEM	1 STILL EXIST. THESE HOSES AI	RE BLOWING OUT AT THE BEND
CESSNA	PWA	LUNGER OK A DIFFE	WINDOW	CRACKED	02/28/2002
425	PT6A60		5116052	FUSELAGE	2002FA0000364
WINDOW, LOCA	TED IN UPPER CAE	SIN DOOR, WAS FOUN	ND TO HAVE 4 CONSEC	CUTIVE MOUNTING HOLES BRO	OKEN ALONG LOWER EDGE. A
RETAINING RING	G, CALLED OUT IN	PARTS BOOK, WAS N	OT INSTALLED ON TH	IS WINDOW. THE INSTALLATION	ON APPEARS TO HAVE BEEN
CESSNA	CTOKT, DUE TO DA	ALE ON WINDOW. NO	WIRE	CHAFED	03/01/2002 8332
441			57181061	BOOST PUMP	2002FA0000398
FOUND RT WINC	GAUXILLARY BOO	ST PUMP WIRING, CH	HAFING ON BOOST PU	MP HOUSING CAUSING AN ELE	CTRICAL ARCING INSIDE OF
FUEL BAY.					

CESSNA			WIRE	CHAFED	03/20/2002	6735	
441	DOOGT DUMPS IN			BOOST PUMP	441M032002	TOD	
WIRING FOR FUEL BOOST PUMPS IN EACH WING WERE CHAFED THROUGH TO CONDUCTOR. WIRING HARNESS HAS TWO CONNECTOR PLUGS, ONE TO FACH BOOST PUMP, CONNECTOR PLUGS ARE WIRED TO A THIRD, LARGER PLUG THAT CONNECTS TO BUILKHEAD PLUG							
THAT FEEDS THROU	JGHINBOARD M	OST RIB IN WET WIN	G AREA. BOOST PUMP	PS ARE MOUNTED TO PLATE AN	ND SURROUNDED BY	METAL BOX	
SHAPED CAN WHIC	H WHEN INSTAL	LED, GETS INSERTE	D THROUGH HORIZON	VTAL PANEL WITH NEOPRENE	SEALS, TO CREATE TI	HE FUEL	
HOPPER. BOX LIKE	ENCLOSURE FOI	RBOOST PUMPS IS VE	ERY CLOSE TO WHERE	E THE WIRES EXIT LARGER OF	THREE CONNECTOR P	LUGS, SO	
WING THAT WAS CH	G FIRMLY AGAI	NST THE BOOST PUN H.	IP BOX LIKE COVER A	ND ARE CHAFING ON IT. FOUN	D AT LEAST ONE WIR	E IN EACH	
CESSNA GA	ARRTT		WIRE HARNESS	CHAFED	03/15/2002	4209	
441 TP	PE331*			BOOST PUMP	DEBA2624D		
FUEL BOOST PUMP	WIRING IN THE	WET WING AREA OF IT FXITS THE FEED T	EACH WING, WAS CH HROUGH CONNETOR I	AFED THROUGH THE INSULAT	ION TO THE CENTER	RIB IS	
CHAFING ON THE B	OX THAT SURRC	UNDS THE BOOST PU	JMPS.		THE INDOMED MOST	RID, 15	
CESSNA GA	ARRTT		PUSHROD	CRACKED	03/12/2002		
441 TP	PE3318 FRIM TAR RUSH		57152801	AILERON TAB	AUS20020263	ACK	
FOUND WHEN PUSH	IROD WAS REM	OVED FOR REPLACE	MENT DUE TO WEAR.	KING KETAINEK. KODEND BEA	KING CORRODED. CF	ACK	
CESSNA			COUPLING	LOOSE	03/27/2002		
560CESSNA	ICUT AFTED DU	A SE INSDECTIONS W	MCB69738150	ACM	2002FA0000451	NE 21 000 ET	
CABIN ALT STARTE	D TO CLIMB UN	CONTROLLABLY, W	ARNING ANNUNCIATO	OR SHOWING "CABIN ALT. 10.00	0 FT.". CREW PERFOR	MED AN	
EMERGENCY DESCH	ENT TO 15,000 FI	. AND CONTINUED F	LIGHT TO DESTINATIO	ON AIRPORT. AFTER LANDING	, MECHANIC FOUND A	COUPLING	
LOOSEON THE REFE	RIGERATION PA	CK (ACM) WHICH SH	OWED EVIDENCE OF I	LEAKING. ALSO, THE MECHAN	IC FOUND TWO AN73	7TW58	
CLAMPS LOOSE ON	THE ACM.		INDICATOR		04/03/2002		
R182			UMA33112	FUEL PRESSURE	2002FA0000506		
A FUEL PRESSURE C	GAUGE WAS RET	URNED TO MFG. FO	R REPAIR. THEY SENT	A REPLACEMENT GAUGE IN I	IS PLACE. THE NEW C	GAUGE	
CAMEWITH AN AN8	316-2D NIPPLE TH	IREADED IN THE PR	ESSURE INLET PORT.	THE PROBLEM IS THE TEFLON	THREAD TAPE WAS		
IMPROPERLY APPLI FITTING THERE WE	REALSO SMALL	TORN PIECES THAT	WOLL D HAVE BROK	RED ABOUT 75 PERCENT OF T EN OFF AND ENTERED THE GA	HE HOLE IN THE END ( LIGE	OF THE	
CESSNA			PRESSURE	FAILED	04/10/2002		
S550			PO67L015	DEICE SYSTEM	2002FA0000464		
TKS DEICE SYSTEM	PRESSURE SWI	FCHES ARE FAILING	IN THE OPEN POSTION	N. WHEN THE SWITCHES FAIL O	OPEN THEY CAN NOT	UEDE IS NO	
WAY TO TELL LOW	PRESSURE IN TH	HE SYSTEM WITH TH	ESE SWITCHES FAILE	D OPEN. WE HAVE REPLACED	THREE SWITCHES IN T	THE ENGINE	
DEICE SYSTEM, ALI	L FAILED IN THE	OPEN POSITION ON	CESSNA			AIR	
FILTER MI	ISINSTALLED (	04/08/2002	A CON # D A 2405		2002540000457		
1210K FOUND (BRACKETT	) AIR FILTER AS	SEMBLY (NR-BA-2404	ASSY # BA2405 5) INSTALLED BACKW	AIR INLE I ARDS THE MESH SAFTEY SCR	2002FA0000457 EEN WAS AT THE FROI	NT OF THE	
FOAM FILTER, AND	THE INLET GRIE	WAS INSTALLED A	THE BACK OF THE A	SSEMBLY. INSPECTED ONE OT	HER FILTER ASSEMBL	Y ON	
LIKEAIRCRAFT AND	D FOUND IT WAS	ALSO MISINSTALLE	D.				
CESSNA CC	DNT NO520C		FITTING 07326012	SHEARED HORIZONTAL STAB	03/12/2002		
(CAN) RIVETS THAT	ATTACH FITTIN	IG TO FORWARD SPA	R WERE SHEARED. MC	DST RIVETS, 10 IN ALL, SHOWEI	D SIGNS OF RINGS ARC	DUND	
SHANKS AT FITTING	G/SKIN SEAM. ON	NE RIVETS WAS SHEA	ARED IN HALF. THERE	WERE NO EXTERNAL SIGNS O	F ANY PROBLEMS. TH	E	
STABILIZER IN QUE	STION CAME IN	FOR SKINS TO BE RE	PLACED. HAVING REC	COLLECTED A PREVIOUS SDR C	N THIS MATTER, WE I	DECIDED TO	
MAY BE FROM WHE	EN THE RIVETS W	USE IN CASE THERE	WAS A PROBLEM. TH ISTALLED. THEY MAY	' HAVE SOME STRESSES IMPOS	ED ON THE NON-SHEAR	TELL JUST	
BY LOOKING AT						TELEVEDI	
CESSNA			SEAL	FAILED	02/06/2002		
TU206F (AUS) NOSE LANDIN	NG GEAR OLEO	LEC MAIN SEAL DNO	MS28775329 MS28775 329 POLLET	NOSE/TAIL LANDIN	AUS20020172		
CESSNA CC	ONT	LEO MAIN SEAL INC	IMPULSE	DEFECTIVE	02/21/2002	483	
U206F IO	520*		M3050	MAGNETOR	2002FA0000413		
THE WOODRUFF KE	EY (M2536) THAT	LOCKS THE IMPULS	E COUPLING ON THE	SHAFT WAS FOUND LODGED	UNDERNEATH THE IM	PULSE	
THE PAWL BOSS AN	ID PLATE WAS N	JEAR LIMITS, A POSS	INMOBILE. THE PIN	AT WOODRUFF KEY WAS NOT	PROPERLY SEATED. A	ND	
INSTALLATION OF I	IMPULSE COUPL	ING DISLODGED TH	E WOODRUFF KEY. EV	VENTUALLY THE WOODRUFF	KEY LODGE ITSELF U	NDER THE	
PAWL.							
CESSNA CC	DNT (	2161061	ROLL PIN NAS561P36	SHEARED	02/20/2002 CA020226008		
(CAN) FUEL SELECT	FOR WOULD NOT	FROTATE VALVE. DI	SASSEMBLED AND FC	DUND PIN SECTION MISSING A	LLOWING HOUSING Y	OKE TO	
ROTATE ON SHAFT.	PIN REPLACED.						
CIRRUS			BOLT	SHEARED	04/18/2002		
PILOT NOTICED RUI	DDER PEDALS S	TIFF DURING TAXI. P	AN57A ILOT FELT RUDDER P	EDALS GIVE WAY, DURING IN	SPECTION. FOUND CO	-	
PILOT'SRUDDER PE	DAL TORQUE T	JBE INBOARD AFT M	IOUNTING BRACKET I	BOLT PN AN3-7A SHEARED. FC	UND CO-PILOT'S INB	OARD	
MOUNTING BRACK	ET BENT PN 114	78-001 AND BUSHING	PN 11504-001 DAMAC	GED. BOLT APPEARS TO HAVE	BEEN OVERTORQUED	WHICH	
WEAKENED ITS SHE	EAR STRENGTH. $v \Delta$	REPLACED BRACKE	FITTING	HARDWARE. SENT DAMAGE P	ARTS TO CIRRUS FOR 03/12/2002	ANALYSIS.	
DHC2MK1 R9	985AN14B 4	930	901230602	STRUT	CA020312001		
(CAN) RIGHT FLOAT	WAS REMOVED	FROM AIRCRAFT FO	R REPAIRS TO BOTTO	M SKIN. UPON REMOVAL, THE F	FRONT STRUT ATTACH	I FITTING	
WAS FOUND CRACK	KED AT HOLE FC	OR TAPER PIN. PART	S BEING REPLACED V	VITH NEW. CRACKED	03/18/2002		
DHC3 S3	SH1G		399359	ENGINE	CA020326005		
(CAN) ENGINE CYLI	INDER CRACKEI	O ON TOP OF HEAD.			*		
DHAV PV	WA		STRUT C2UE1085	CRACKED	02/11/2002	18089	
(CAN) FLOAT STRUT	IS REMOVED TO	PERFORM ANNUAL	USUF1085 INSPECTION AS PER F	FLUAT DEHAVILLAND SERVICE BUILT	CA020211016 ETIN 3/30. SIX INCH I O	NG CRACK	
FOUND VISUALLY T		ENTER OF THE BASE	OF THE STRUT CASTIN	NG	Least of constrained in EO		

DHAV		FORK C3FE3143	MISMANUFACTURE	02/25/2002	
(CAN) PART NOT	MANUFACTURED AS PER DEHAVILLAN	ND/BOMBARDIER SPEC	C. FOUR FORKS FROM INVENT	ORY FOUND NOT FILL	ET RADIUS
TO 0.031 INCH. S	EVEN OF EIGHT ON AIRCRAFT SEATS NO AT BELT RETENTION FAILURE, THESE F	OT FILLET RADIUS TO ORK ARE USED ON AL	0.031 INCH. THIS MAY PUT UN L POST MOD 6/1601 OR S.O.O.6	DUE STRESS ON HEAD 104 SEATS	OF BOLT
DIAMON	ROTAX	LINE	LEAKING	03/06/2002	
DA20A1	ROTAX912	2072000002	ENG COOLING	CA020312004	
(CAN) SMELL OF	ANTI-FREEZE IN COCKPIT. INVESTIGTI	ON REVEALED THAT (	COOLANT PIPE HAD MOVED AN	ND RUBBED ON HEAT	SHROUD,
CAUSING SMALI	L HOLE ALLOWING ANTI-FREEZE TO LE	AK OUT.		0.1/0.1/2002	2210
DOUG		STABILIZER	CRACKED	04/04/2002 2002EA0000447	2348
DURING A ROUT	INE INSPECTION WE FOUND THE UPPER	AND LOWER VERTIC	AL STABILIZERS TO HAVE CRA	CKS IN THE MOUNTIN	IG BORE
EMANATING FRO	OM THE BOLT HOLES THAT ATTACH THI	E STABILIZER TO THE	TORQUE TUBE.THE BORE HAS	A CASTED LOOKING FI	TTING FOR
EACH OFTHE TW	O MOUNTING BOLTS AND APPEARS TO	BE A PLASTIC OR COM	APOSITE TYPE MATERIAL. IT IS	THIS CASTING THAT I	S ND
NOTIFIED MDHI	BOTH UPPER AND LOWER CASTINGS IN	SOME CASES. WE HAV	VE ORDERED 4 EACH REPLACE	MENT STADILIZERS A	ND
DOUG		STABILIZER	CRACKED	04/04/2002	2193
600N		600N38001	TAIL	2002FA0000449	
DURING A ROUT	INE INSPECTION WE FOUND THE UPPER	AND LOWER VERTIC	AL STABILIZERS TO HAVE CRA	CKS IN THE MOUNTIN	IG BORE
EMANATING FRO	OM THE BOLT HOLES THAT ATTACH TH	E STABILIZERS TO THE	E TORQUE TUBE. THE BORE HAS	A CASTED LOOKING I	FITTING
FOR EACH OF TH	IE TWO MOUNTING BOLTS AND APPEAR	S TO BE A PLASTIC OR	R COMPOSITE TYPE MATERIAL.	IT IS THIS CASTING T	HAT IS
CRACKED, BUTH	UPPER AND LOWER IN SOME CASES. W	SERVO	STICKING	0.4/0.1/2002	50
G102ASTIR	AEIO540D4A5	G1204105	AILERON TRIM	2002FA0000480	59
TRIM SERVO STI	CKING IN OPERATION AND FAILS TO MO	OVE THE AILERON TRI	M TAB. REMOVED AND INSTAL	LED NEW TRIM SERVO	)
ASSEMBLY. PAR	T SENT IN FOR WARRANTY.				
GROB	LYC	ACTUATOR	FAILED	04/02/2002	59
G102ASTIR	AEIO540D4A5	1145	MLG	2002FA0000481	
NOSE LANDING	GEAR HYDRAULIC ACTUATOR BOTTON	I SEAL AROUND SHAF	FT BLOW OUT AND LEAKING F.	LUID FROM CYLINDE	ε.
GUI STM	I YC	TOROUE TUBE	WORN	03/15/2002	6247
560	GO480*	5420014157	RUDDER	2002FA0000400	0247
DURING AN ANN	UAL INSPECTION, WHILE MEASURING	RUDDER TRAVELS IT	WAS FOUND THAT IF A LITTLE	EXTRA PRESSURE W	AS APPLIED
TOTHE RUDDER	TRAILING EDGE, ONCE IT HAD REACHE	D ITS STOP, THE RUDE	DER TRAVELED AN EXTRA INC	H PAST THE SPECIFIED	TRAVELS.
WHILE THE STOP	PREMAINED STATIONARY UPON INSPEC	CTION, IT WAS FOUND	THAT ALL THE RIVETS ON TH	E TOP AND BOTTOM O	F THE
RUDDERTORQUI	E TUBE WERE LOOSE AND WORN. THE C	CAUSE IS MORE THAN	LIKELY FROM WIND DAMAGE	E. RECOMMENDATION	S: MAKE
SURE THAT THE	AUDDER GUST LOCK IS INSTALLED AFT	COMPRESSOR		02/20/2002	12200
369D	250C20B	6890550	FAILED	CA020319003	12288
(CAN) ON THE 3R	RD START OF THE DAY THE PILOT COUL	D NOT MOTOR THE EN	GINE TO START THE AIRCRAF	C. PULLED THE START	ER AND
TRIED TO TURN	N1 GEARTRAIN AND WAS UNABLE TO T	URN. TRIED TO TURN	THE COMPRESSOR THRU THE	BYPASS DOOR BY HAN	ID AND
WAS UNABLE TO	) TURN. REMOVED THE ENGINE FROM T	HE AIRFRAME. TOOK	THE COMPRESSOR OF THE GEA	ARBOX AND WAS STIL	L UNABLE
TO TURN THE CO	MPRESSOR. NO DAMAGE TO THE FIRST	STAGES WAS FOUND	ON THE COMPRESSOR. SUSPEC	CTED THAT THE IMPEL	LAR
CLEARANCES AF	RE TO TIGHT AND HAVE CONTACTED. C	OMPRESSOR OUT FOR	EVALUATION.	02/12/2002	
369D	250C20B	NAS697A3	FNGINE BAY	CA020321001	
(CAN) UNUSUAL	SOUND HEARD FROM THE A/C ON COO	L DOWN COMING FRO	OM THE ENGINE INLET AREA. U	JPON FURTHER INVES	TIGATION
THE COMPRESSO	OR HAD FOD. A NUTPLATE ON THE FORM	WARD SIDE OF THE PA	RTICLE SEPERATOR, THAT FA	STEN THE FOWARD IN	LET
COWLS ON, HAD	SPLIT AND HALF OF THE NUT PLATE W	ENT THRU THE PART	ICLE SEPERATOR AND WAS IN	GESTED BY THE ENGI	NE. THE
NUT PLATE MAD	DE IT THRU THRU THE ENTIRE LEAR	GARRTT		CONNECTOR	
DAMAGED	01/30/2001 TEE72122B		ANTI CHID CVCTEM	C 4 0 2 0 2 2 7 0 0 9	
(CAN) ON A BASI	ΙΓΕ/3122Β Ε INSPECTION IT WAS NOTED THAT THE	NR 1 AND NR 2 TIRES	HAD FLAT SPOTS FROM SKIDI	UNG THERE WAS NOT	PEPORTED
ANTI-SKID FAILU	URE LIGHT ILLUMINATION. INVESTIGAT	TION REVEALED THAT	THE LT ANTI-SKID CONTROL	VALVE WAS NOT RELE	EASING THE
PRESSURE TO TH	E SKIDDING WHEEL. CONNECTOR PIN	"G" ON THE CONTROL	VALVE WAS FOUND TO HAVE	CORRODED TO THE P	OINT THAT
ITBROKEN OFF I	NSIDE THE CONNECTOR PLUG. THIS CIR	CUIT CONTROLS THE	RETURN SHUT-OFF SOLENOID	IN THE VALVE. THE FA	ILURE
LOGIC IN THE AN	NTI-SKID CONTROL BOX CHECKS THE O	PERATION OF THE WH	IEEL TRANSDUCERS BUT DOES	S NOT INDICATE A FAI	LURE OF
THE VALVE. THE	E CONTROL VALVE IS LOCATED IN THE	WHEEL WELL WHERE I	IT IS SUBJECT TO WATER	02/21/2002	7052
LEAR 551 EAD		THRUST 4510000501	MISINSTALLED	02/21/2002	7052
DOOR POSITION	INDICATOR WIRING HARNESS WAS CU	TATRECEPTACLE DO	OR POSITION INDICATOR REC	FPTACLE INSTALLED	UPSIDE
DOWN, CAUSING	DAMAGE TO MALE PINS IN RECEPTAC	LE. DOOR POSITION IN	NDICATOR WIRING HARNESS F	ETAINING CLAMP RIV	/ET
REPLACED WITH	ISCREW AND NUT. DISCREPANCIES DIS	COVERED DURING 14	00 HOUR		
MOONEY	CONT	COTTER PIN	BROKEN	03/13/2002	207
M20K	TSIO360LB	639292	CONNECTING ROD	2002FA0000393	
DURING ANNUA	L INSPECTION FOUND COTTER PIN IN T	HE OIL SUCTION SCRE	EEN. THE COTTER PIN WAS BRO	KEN INTO THREE PIE	CES.
I BELIEVE THE C	OTTER PIN WAS IMPROPERTY INSTALL	ED DURING A PROPEI	I ER STRIKE INSPECTION WHI	CHALLOWED THE CO	TTER PIN
TO MOVE WEAR	ING THE PIN TO THE POINT OF				I I LIK I II V
PIPER	LYC	ACTUATOR	BROKEN	03/11/2002	1572
PA23160	0220*	3503002	NLG	2002FA0000402	
PILOT WAS TAX	0320*	3505002	THE O		
AND THE NOSE (	IING OFF OF RUNWAY ON AN UNIMPRO	VED AREA. THE NOSE	E GEAR DOWN LOCK WAS RELI	EASED DUE TO ROUGH	I TERRAIN
PIPER	US20* IING OFF OF RUNWAY ON AN UNIMPRO GEAR ACTUATOR ROD WAS BENT APPR	VED AREA. THE NOSE OXIMATELY 60 DEGR	E GEAR DOWN LOCK WAS RELI EES.	EASED DUE TO ROUGH	I TERRAIN
PA28161	US20* IING OFF OF RUNWAY ON AN UNIMPRO GEAR ACTUATOR ROD WAS BENT APPR	VED AREA. THE NOSE OXIMATELY 60 DEGRI HOUSING 65313004	GEAR DOWN LOCK WAS RELI EES. BROKEN MLG STRUT	EASED DUE TO ROUGH 06/26/2000 2002FA0000425	I TERRAIN 11437
PA28161 ATTACH EAR BR	OS20* IING OFF OF RUNWAY ON AN UNIMPRO GEAR ACTUATOR ROD WAS BENT APPR	VED AREA. THE NOSE OXIMATELY 60 DEGRI HOUSING 65313004 THE TOROUE LINK A	GEAR DOWN LOCK WAS RELI EES. BROKEN MLG STRUT TTACHES TO THE STRUT HOUS	EASED DUE TO ROUGH 06/26/2000 2002FA0000425 SING, NOT ORIGINALL	I TERRAIN 11437 Y
PA28161 ATTACH EAR BR REMORTED, AS I	OS20* IING OFF OF RUNWAY ON AN UNIMPRO GEAR ACTUATOR ROD WAS BENT APPR OKE OFF AT WHERE THE UPPER END OI T WAS THOUGHT TO BE A FLUKE, CAUS	VED AREA. THE NOSE OXIMATELY 60 DEGRI HOUSING 65313004 F THE TORQUE LINK A SED BY A STUDENT CR	GEAR DOWN LOCK WAS RELI EES. BROKEN MLG STRUT TTACHES TO THE STRUT HOUS OSS LOADING THE GEAR ON L	EASED DUE TO ROUGH 06/26/2000 2002FA0000425 SING. NOT ORIGINALL ANDING, THUS CAUSE	I TERRAIN 11437 Y NG IT TO
PA28161 ATTACH EAR BR REMORTED, AS I BREAK.	OS20* IING OFF OF RUNWAY ON AN UNIMPRO GEAR ACTUATOR ROD WAS BENT APPR OKE OFF AT WHERE THE UPPER END OI T WAS THOUGHT TO BE A FLUKE, CAUS	VED AREA. THE NOSE OXIMATELY 60 DEGR HOUSING 65313004 F THE TORQUE LINK A SED BY A STUDENT CR	CEAR DOWN LOCK WAS RELI EES. BROKEN MLG STRUT TTACHES TO THE STRUT HOUS IOSS LOADING THE GEAR ON L	CASED DUE TO ROUGH 06/26/2000 2002FA0000425 SING. NOT ORIGINALL ANDING, THUS CAUSE	I TERRAIN 11437 Y NG IT TO
PA28161 ATTACH EAR BR REMORTED, AS I BREAK. PIPER PA20161	OS20* IING OFF OF RUNWAY ON AN UNIMPRO GEAR ACTUATOR ROD WAS BENT APPR OKE OFF AT WHERE THE UPPER END OI T WAS THOUGHT TO BE A FLUKE, CAUS	VED AREA. THE NOSE OXIMATELY 60 DEGRI HOUSING 65313004 7 THE TORQUE LINK A EED BY A STUDENT CR HOUSING 65210004	CEAR DOWN LOCK WAS RELI EES. BROKEN MLG STRUT TTACHES TO THE STRUT HOUS OSS LOADING THE GEAR ON L CRACKED	CASED DUE TO ROUGH 06/26/2000 2002FA0000425 SING. NOT ORIGINALL ANDING, THUS CAUSE 06/29/2000	I TERRAIN 11437 Y NG IT TO 7841
PA28161 ATTACH EAR BR REMORTED, AS I BREAK. PIPER PA28161 EQUIND CRACKE	D DURING NORMAL MAINTENANCE N	VED AREA. THE NOSE OXIMATELY 60 DEGRI HOUSING 65313004 F THE TORQUE LINK A EED BY A STUDENT CR HOUSING 65319004 OVED WHILE DYE CHE	CEAR DOWN LOCK WAS RELI EES. BROKEN MLG STRUT TTACHES TO THE STRUT HOUS OSS LOADING THE GEAR ON L CRACKED STRUT CKLING THE AREA INVOLVED	CASED DUE TO ROUGH 06/26/2000 2002FA0000425 SING. NOT ORIGINALL ANDING, THUS CAUSE 06/29/2000 2002FA0000427 HAVING EQUIND 2 PDF	I TERRAIN 11437 Y NG IT TO 7841

PIPER	LYC	HOUSING	CRACKED	06/29/2000	7414					
PA28161 CRACKS IN RAD	0320* IUS OF SCISSORS EARS. POSSIBLE CAUS	65313004 E FATIGUE ON HIGH T	MLGSTRUT IME AIRCRAFT.	2002FA0000426						
PIPER	LYC	HOUSING	CRACKED	06/26/2000	11761					
PA28161 CRACK WAS FOI	0320* IND DURING NORMAL 100 HOUR MAIN	65319004 TENANCE SINCE WE	RTMLG HAD ENCOUNTERED ONE BRE	2002FA0000428 AKING OFF EARLIER 3	WE WERE					
MORE MINDFUL OF CHECKING NORMAL IN HOUR MAINTENANCE, SINCE WE HAD ENCOUNTERED ONE DREAKING OFF EARLIER, WE WERE MORE MINDFUL OF CHECKING THEM CLOSER. DYE CHECK SHOWED THE CRACK IN THE EAR RADIUS AREA. ALL THE STRUTS ARE THOUGHT TO BE OPIGINAL FOURDMENT										
PIPER	EQUILMENT.	SPAR	CORRODED	03/28/2002	5277					
PA28180		6205400, 62054	WING	2002FA0000409	MIDDOD					
REAR SPAR SEVERELY CORRODED UNDER STEEL ATTACH PLATES, P/N 66762-00. DAMAGE WAS FOUND WITH A FLASHLIGHT AND MIRROR, LOOKING AT THE FORWARD SIDE OF THE SPAR THROUGH THE INBOARD RIB LIGHTENING HOLES AND WAS SO FAR PROGRESSED THAT THE EXPLOREMENT OF DEACESSED THAT THE SPAR MAKING IT VISIDLE FOR MININE THE WING NO EXTERNAL COMPOSIDE WAS										
NOTED DUETO A SIX YEAR OLD PAINT JOB. STEEL PLATES ON FUSELAGE CARRY-THROUGH STRUCTURE ALSO REMOVED TO REVEAL SIMILAR CORROSION WHICH WAS LESS										
PIPER	LYC	VOLT	MISSING	02/23/2002						
PA28180 OWNER COMPL	0360* AINED OF OVERVOLTAGE FOUND REGI	II ATOR HAD BEEN RE	ELECTRICAL	2002FA0000412 RNATOR RECENTLY R	FPI ACED					
OLD ALTERNAT	OR MAY HAVE BEEN AUTOMOTIVE WIT	TH INTERNAL REGULA	ATOR. PREVIOUS OWNER PERFO	ORMED MUCH OF THE	LI LACLD.					
PIPER	LYC	BALANCE	CORRODED	03/21/2002						
PA28180	O360A4A		LT & RT AILERON	CA020327005						
(CAN) AILERON	LEFT AND RIGHT BALANCE WEIGHT AS ND SERVICEABLE ADEOUATE TREATM	SSY FOUND BADLY CC	JRRODED. PART REMOVED SAI RE REASSEMBLED THIS IS CON	NDBLASTED STEEL PA ISIDERED VERY IMPOR	RT TANT IF					
NO ACTION TAK	EN WILLCAUSE LOST OF CONTROLS FL	UTTERING AILERON.	SUGGEST THAT PIPER OWNER'	S OF PA28 SERIES BE A	DVISED AS					
SOON AS POSSIB	LE DUE TO THE FACT OF OLD AGE OF T	HE AIRCRAFT.AWD W	TILL SUPPORT THIS SITUATION.							
PIPER PA28181	LYC 0360*	CABLE 62701114	WORN FWD STABIL ATOR	02/27/2002 2002FA0000373	2592					
DURING A ROUT	INE INSPECTION THE RIGHT AND LEFT	FORWARD STABILAT	OR CABLES WERE FOUND WOR	RN. THE LEFT AILERON	BALANCE					
CABLE WAS ALS	O FOUND IN A SIMILAR CONDITION. TH	HE WORN PARTS OF T	HE CABLE WERE FOUND AT PU	LLEYS, FAIRLEADS. P	ROBABLE					
CAUSE: SUBSTA	NDARD CABLE AND IMPROPER ALIGN	MENT BY	CRACKED	02/22/2002						
PIPER PA28R200	LYC 10360C1C	ASABOVE	SEAT	CA020227011						
(CAN) BOTH LT A	AND RT UPPER FORWARD WELD JOINTS	FAILED ON SEAT FRA	ME ASSEMBLY. THE SEAT ASSI	EMBLY IS VERY DIFFIC	CULT TO					
INSPECT IN THIS	AREA AS IT IS COVERED WITH UPHOLS	TERY.		00/06/0000						
PIPER PA28R201		HINGE	BENT	03/26/2002 2002FA0000453	98					
DURING 100 HOU	JR INSPECTION NOTED ALTERNATE AII	R DOOR AND HINGE B	ENT AND ALLOWING UNFILTE	RED AIR TO ENTER TH	E INTAKE					
SYSTEM.										
PIPER	LYC	ADAPTER	BENT	03/26/2002	513					
INSPECTED AND	FOUND AIR DOOR AND HINGE BENT A	ND ALLOWING UNFIL	TERED AIR TO ENTER THE INT	2002FA0000431 AKE						
PIPER	LYC	DRIVEUNIT	BROKEN	04/01/2002						
PA31	TIO540A2B		PROP GOVERNOR	CA020403005						
(CAN) A/C DEPAI	RTED AT APPROX 02:00 ZULU ON APR 2	ON IFR FLT TO VANCU	JUVER. DURING INITIAL STAGE	E OF CLIMB, RT ENGIN	ERPM					
UNSUCCESSFUL	& CHOOSE TO FEATHER ENGINE & RET	URN TO PENTICTON. U	JPON INSPECTION MAINT CREV	W DISCOVERED THAT I	DRIVE ON					
PROP GOVERNO	R BROKEN.GOVERNOR HAS APPROX 80	0 HRS SINCE OVERHA	UL. GOVERNOR REMOVED FRO	OM ENGINE & OVERHA	AULED					
GOVERNOR INST	FALLED. A/C GROUND RUN & FOUND AG	CCEPTABLE FOR RETU	JRN TO SERVICE.	02/21/2002						
PIPER PA31	TIO540A2C SPAR	SPAR 4007514	CRACKED FLEVATOR SPAR/R	02/21/2002 AU\$20020148						
(AUS) LH AND R	H ELEVATOR SPARS CRACKED AT OUT	BOARD ENDS. LH ELE	EVATORSPAR PNO 40075-14. RH	ELEVATOR SPAR PNO	40075-16.					
PIPER	LYC	CAMSHAFT	WORN	03/05/2002						
PA31350	LTIO540J2BD NGINE BOCKER VALVES INSPECTION N	LW12201	ENGINE	CA020313005						
REMOVED AND	CAMSHAFT INTAKE VALVE LOBE WAS	FOUND WORN. THE EN	IGINE WAS REMOVED FROM TH	HE AIRCRAFT AND SEN	T FOR					
REPAIR.										
PIPER	LYC	FITTING	CRACKED	02/27/2002	16370					
PA31350 (CAN) INSPECTIO	NREVEALED A SMALL CRACK IN THE	4029400 WEB WHERE IT IOINS	THE LOWER RIGHT BOLT HOL	E THE CRACK RUNS	16370					
PERPENDICULAI	R TO THE WEB.PART TIME IS UNKNOWN	, TIME GIVEN IS AIRFI	RAME TIME.							
PIPER	LYC	CONNECTING	FAILED	03/01/2002						
PA31350	TIO540J2BD SUODT ELICUT ADDROXIMATLY 5 MIN	UTER AFTER TO DU	LT ENGINE	CA020304005						
IMMEDIATLY BY	A SLIGHT VIBRATION THEN SMOKE FI	ROM THE LT ENGINE. 1	THE ENGINE WAS SHUT DOWN	AND FEATHERED IMM	EDIATLY.					
AFTER LANDING	VISUAL INSPECTION CONFIRMED THE	NR 6 CONNECTING RO	DD HAD PENETRATED THE CRA	NKCASE ABOUT 2-3 IN	NCHES					
OUTBOARD OF T	THE CASE SPINE.			02/11/2002						
PIPER PA31T2	PWA PT6A135	SHAFT	STRIPPED FUEL PUMP	03/11/2002 CA020313006						
(CAN) FCU AND	FUEL PUMP WAS REMOVED FROM ENG	INE. FUEL PUMP TO E	NGINE SHAFT WAS FOUND STR	RIPPED, RESULTING IN	FUEL					
STARVATION.										
PIPER	LYC 10540K1C5	STUD	CRACKED	03/26/2002						
FA52K500 (AUS) MAIN LAN	IDING GEAR SIDE BRACE STUDS (20FF)	CRACKED IN RADIUS	FOUND DURING MPI INSPECTI	ON IAW						
PIPER	CONT	PUMP	LEAKING	03/20/2002						
PA34220T	TSIO360KB	84251003	HEATER	CA020403004	orp					
(CAN) WHILE CA	RRYING AT AD 2001-17-13 (JANAERO SO T OF THE DOWED WIDE CROMMET THE	ULENOID/SHUTOFF VA	ALVE LEAK CHECK) THE HEAT	ER FUEL PUMP WAS F	OUND TO					
IS A DRAIN UND	BE LEAKING OUT OF THE POWER WIRE GROMMET. THIS PUMP IS UNDER THE CENTRE FLOOR BOARD IN THE CABIN AND ALTHOUGH THERE IS A DRAIN UNDER THE PUMP FUEL WAS RUNNING ALONG THE BELLY									

DIDED	CONT				02/02/2002	
PIPER	CONT		FITTING	EUSELACE WINC A	02/03/2002	
PASO205	020JU	C DDOVEN CURDECT I		FUSELAGE, WING A	AUS20020278	
(AUS) LH WING P	ATTACHMENT LU	G BRUKEN. SUSPECT	DAMAGED DUKING A	SUEADED	04/01/2002	000
PIPEK			PLATE 92515002	SHEAKED DTELEVATOR	04/01/2002	990
PA40330P	FDOL DLATE ACCE		85515002		3124 TODV WAS NOTED IN	THE
ELEVATOR CON	I ROL PLATE ASSE	MBLY HAD 4 OUT OF	/ AN4 RIVEIS SHEARE	2D. NO PREVIOUS DAMAGE HIS	TORY WAS NOTED IN	THE
LUGBUUK.			DELT	(TRETCHED	04/00/2002	2
ROBSIN			BELI	SIREICHED	04/09/2002	3
K22		10000 DIGDECTION A	A1902	ENGIO KOTOK	IVSA0/8430	
BELIS WERE REI	PLACED DURING	100HR INSPECTION AF	TER 693.3 HOURS ISI.	FAN WHEEL WAS BALANCED	AND RUNUP WAS NO	KMAL.
FIRST FLIGHT OF	APPROXIMATEL	Y 2 HOURS WAS UNEV	ENTFUL. DURING SEC	OND FLIGHT PILOT REPORTED	CLUTCH LIGHT FLIC	KERED ON
AND OFFSEVERA	AL TIMES. ON INSP	ECTION AFTER PRECA	AUTIONARY LANDING	, BELTS WERE FOUND STRETC	HED TO THE POINT TH	IAT OVER
LIMITSWITCHD	EACTIVATED THE	SYSTEM. SYSTEM INS	SPECTED WITH NO FAU	LTS FOUND OTHER THAN BEL	I STREICH BEYOND L	IMITS. NEW
BELTS WERE INS	TALLED AND AD	JUSTED. FAN WHEEL	BALANCE CHECKED.	OD & OVED	00/01/0000	0.4.4
ROBSIN	LYC		WHEEL	CRACKED	02/01/2002	3646
R22BETA	O320B2C		B1741	ENGINE FAN	2002FA0000355	~~~~~
DURING REMOV	AL OF FAN ASSEN	IBLY WHICH IS MOUN	TED ON A TAPERED S	HAFT, THE FAN MOUNTING WA	AS FOUND TO BE CRAC	CKED
THROUGH. ALSO	THE REINFORCE	MENT PLATE WHICH I	S USED TO STRENGTH	EN THE FAN ASSEMBLY WAS I	FOUND TO BE SEVERE	LY
CRACKED. THIS S	SIDE OF THE FAN	ASSEMBLY MOUNTS 7	FO THE FAN NUT WAS	OVER TORQUED CAUSING UNI	DUE STRESS ON THE T	APERED
SHAFT CAUSING	THE FAILURE. TH	IIS AREA IS HARD TO I	NSPECT WITHOUT FAN	NREMOVAL, THEREFORE IT WI	ENT UNDETECTED WH	IICH
EVENTUALLY LE	EAD TO THE REIN	FORCEMENT PLATE C	RACKING. SUGGEST U	SING APPROPRIATE TORQUE	ON RETENTION NUT.	
ROBSIN	LYC		ACTUATOR	UNSERVICEABLE	03/08/2002	
R22BETA	O360J2A		405H	ENGINE/TRANSMISS	AUS20020276	6
(AUS) CLUTCH A	CTUATOR UNSER	VICEABLE. ACTUATO	R UP LIMIT SWITCH ST	UCK INOPEN CIRCUIT POSITIO	N PREVENTING RETEN	ISIONING
OF DRIVE BELTS.						
SCWZER	LYC	PRECISION	CHECK VALVE	BACKED OUT	03/29/2002	927
269D	HIO360C1A	HA6	36596	CARBURETOR	2002FA0000419	
AIRCRAFT EXPE	RIENCED A PARTI	AL POWER FAILURE A	LONG WITH A SUDDE	N VIBRATION. DURING THE SU	JBSEQUENT INSPECTI	ON, THE
ACCELERATOR F	PUMP DISCHARGE	CHECK VALVE IN TH	E CARBURETOR WAS I	FOUND TO HAVE BACKED OUT	OF ITS CHAMBER. RE	COMMEND
REDESIGNINGAL	L THE CHECK-VA	LVES AND JETS IN TH	E CARBURETOR TO IN	CORPORATE A PERMANENT N	YLON THREAD LOCK	IN THE
THREADS.						
SKRSKY		SKRSKY	HOUSING	CRACKED	03/26/2002	23186
S61A		\$613520600	\$613520670042	M/R GEARBOX	CA020326008	
(CAN) 6 CRACKS	WERE NOTED ON	AFT END OF OUTER F	LANGE UNDERNEATH	I STUD HOLES. 2 OF CRACKS A	RE UNDER STUD HOL	ES. WHICH
WERE NOT INST	WITH STUDS (PRE	E-TAPPED FOR HEAVY	RING GEAR: CURREN	TLY PLUGGED). CRACKS ARE	ABOUT 0.18-0.27 INCH	ES LONG
MEASURED FROM	M CRACK CENTER	R IT APPEARED THAT (	RACKS RESULTED FR	OM OVER TAPPING OF STUD H	OLES EXAMINATION	OF OF
STUD HOLES SHO	OWED THAT THRE	EADS ARE TAPPED BE	YOND DRXXL DEPTH.	WITH 4 FLUTE MARKS (WHICH	APPEARS TO BE FRO	M TAPPING
TOOL) SHOWN A	T BOTTOM OF STI	UD HOLES ALL 6 HOL	ES WITH CRACKS HAV	E SAME FLUTE MARKS THE D	EPTH OF TAPPED HOL	ES HAVE
AVERAGE READ	ING OF 1 33 IN AC	CORDING TO SIKORS	KY B/P STUD HOLE IS	TAPPED 0 375-16 UNC-3B X 1 1	8 DEEP PER	
SOCATA	PWA		INSERT	LOOSE	02/13/2002	
TBM700	ΡΤ6Δ6Δ		T7004575000001	TE EL APS	CA020220011	
(CAN) DURING 10	0 HOUR INSPECT	ION NOTICED THAT FI	APCARRIAGE INBOA	RD IS MOVING AT ATTACHME	NT REMOVED EL AP A	ND
CARPIAGE AND		NEEDTS THAT SECURE	THE CAPPIAGE TO FI	AP WERE LOOSE CAUSING DA	MAGE TO COMPOSITI	
HONEYCOMB (IN	TERNALLY) ONE	OF THE INSERTS WAS	S FREE TO SPIN BOND	ON INSERT WAS NOT RETAINI	NG ELAPREMOVEDE	OR REPAIR
WTHPI V	DWA	OF THE INSERTS WA	BUI KHEAD	CRACKED	03/25/2002	1015
620P	D095*		50251101	EUSELAGE	2002EA0000421	1015
DUDING ANNUA	I INSPECTION EO	UND FUSELAGE PEU	V DAN BUI KHEAD (D	N 50351 101) CRACKED LIDDER	LEET VUD DICHT CO	NED THIS
	O SEE WITHOUT	ELAGE FUSELAGE DELL	DOD ALSO FOUND T	ALL COME DILL VIEADS (DN 502	ST 105) AND (DM 5025)	1 1 2 2 )
CRACKED AND T	O SEE WITHOUT	LASTLIGHT AND MI	NUK. ALSU FUUND L	AIL CONE DULKHEADS (PN 503	NEDECTION OF THE	DEA LISING
A FI ASHI IGUT A	ND MIDDOD	MILAD IS NIVETED IU	J THE DELL I SKIN DRU	OKEN, SUGGEST A THROUGHT	INDI LETION OF THIS A	INEA USING
A PLASHLIOHI A	AND MIRKOR.					

						OMB No.	2120	-0003
DEPARTMENT OF TRANSPORTATION OP		OPER. Control No.		<ol> <li>Comments (Describe the malfunction or defect and the circumstances under which it occurred. State probable cause and recommendations to prevent recurrence.)</li> </ol>	1CT DE	ATOR ATOR		
MALFUNCTION OR DEFECT REPORT		DODT	ATA Code			OF FL	SIGN	
		<sup>1.</sup> A/C Reg. No.	N-			ЪÄ	-	
Enter pertinent da	ta MANUFACTU	RER	MODEL/SERIES	SERIAL NUMBER		OTHER		
AIRCRAFT						UER 0		
3. POWERPLAN	л					COMMI		
4. PROPELLER						FAA		
5. SPECIFIC PART (of component) CAUSING TROUBLE			OUBLE			ġ		
Part Name MFG. Model or Part No.		Part No.	Serial No.	Part/Defect Location.		M	-	
						AIR TAXI		
6. APPLIANCE/COMPONENT (Assembly that includes part)			ludes part)			Ŧ	1	
Comp/Appl Name	Manufactu	irer	Model or Part No.	Serial Number		MEC		$\sim$
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