



Aircraft Serial Number: 33036

Registration Number: _____

Date: May 27, 2010

HELICOPTER EVALUATION REPORT

General Information

| <u>Airframe</u> | <u>Engine (s)</u> | <u>#1 Left</u> | <u>#2 Right</u> |
|--|---------------------------------------|-------------------------|-------------------------|
| Manufacturer: <u>Bell</u> | Manufacturer: <u>P&W</u> | <u>P&W</u> | <u>P&W</u> |
| Model: <u>412</u> | Model: <u>PT6T-3B</u> | <u>PT6T-3B</u> | <u>PT6T-3B</u> |
| Serial Number: <u>33036</u> | Serial Number: <u>CP-PS 63466</u> | <u>CP-PS 63466</u> | <u>CP-PS 62253</u> |
| Aircraft Total Time: <u>17070.9</u> | Eng. Total Time: <u>4429.6</u> | <u>4429.6</u> | <u>13821.8</u> |
| Hobbsmeter Reading: <u>4959.5</u> | Total Starts: <u>1402 since Inst.</u> | <u>1402 since Inst.</u> | <u>5721 since Inst.</u> |
| Retirement Index Number: <u>TBD</u> | Total Flights: <u>2242</u> | <u>2242</u> | <u>5812</u> |
| Torque Events: <u>TBD</u> | Total Cycles Ng: <u>1951.8</u> | <u>1951.8</u> | <u>6006.5</u> |
| Run-On Landings: <u>TBD</u> | Total Cycles Np: <u>19750.5</u> | <u>19750.5</u> | <u>15643</u> |
| Training Autorotations: <u>TBD</u> | Total Excursions: <u>2</u> | <u>2</u> | <u>2</u> |
| Manufacture Date: <u>Oct 1981</u> <small>As shown on the Data Plate</small> | <u>(2 ½ min. OEI)</u> | <u>(2 ½ min. OEI)</u> | <u>(2 ½ min. OEI)</u> |
| Internal Hoist Operations: <u>N/A</u> <small>(in penalty range)</small> | | | |

Contact Information

| | |
|--|----------------------------|
| Current Owner / Operator: <u>MED-TRANS CORP.</u> | |
| Contact Person: <u>VARIOUS</u> | |
| Address: <u>4555 S PALO VERDE RD.</u> | |
| <u>TUCSON,AZ 85714</u> | |
| Telephone Number: <u>SEE CONTACT</u> | E-mail: <u>See Contact</u> |
| Fax Number: <u>" "</u> | Other: _____ |
| Mobile Phone Number: <u>" "</u> | |

Overall Aircraft Rating

| | |
|--|------------------------------|
| Aircraft Rating: 5 = Excellent, 4 = Good, 3 = Average, 2 = Marginal, 1 = Poor | Overall Rating: [3] |
| Comments: Aircraft has not flown for an extended period. Aircraft records appear to be complete. | |
| An updated bulletin list was not available at time of evaluation. Aircraft will require an annual type Insp. and various BHT inspections pending further records review. | |
| Note: The Premier Aviation doors (bulged doors) are to be removed and Standard BHT 412 doors are to be installed as per Med Trans personnel. The replacement doors will not match current A/C paint scheme. | |
| A complete records research and compulsory Inspections would be required to determine the airworthiness of the aircraft. | |
| The Aircraft belly main fuel cell panels paint scheme does not match –panels replaced. | |



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Evaluation Performed by: Andrew Varner for P.A.C International

Signature: _____



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Cosmetics & Interior

| | | |
|--|--|------------------------------------|
| Aircraft Rating: 5 = Excellent, 4 = Good, 3 = Average, 2 = Marginal, 1 = Poor | | Overall Rating: [3] |
| Rating Codes: A = Acceptable (No Damage), C = Corroded, D = Damaged, K = Cracked, W = Worn, N/A = Not Applicable - RMA = Required Maintenance Action | | |
| <u>Exterior</u> | | <u>Interior</u> |
| Base Color: White | Crew Seat Color: grey | 3A |
| Major Accent: Blue | Crew Seat Covering: Leather/sheepskin | 3A |
| Minor Accent: Red | Passenger Seat Color: Grey | 3A |
| Minor Accent: _____ | Pax Seat Covering: Leather | 3A Tears |
| Minor Accent: _____ | Seat Configuration & Qty: 2 aft face / 1 fwd face | 3A |
| | Trim Color: n/a | N/A |
| | Floor Color: Grey | 3A |
| | Floor Covering: EMS med floor | 3A |
| <u>Glazings</u> | <u>Ratings</u> | <u>Ratings</u> |
| Windshields: L [Aa] | R [A] | Chin Windows: L [A] |
| Crew Door Windows: L [A] | R [A] | Sky Light Windows: L [A] |
| Cabin Door Windows: L [A] | R [A] | Fuselage Windows: L [n/a] |
| <u>Comments:</u> R/H crew door windows scratched, L/h crew door windows scratched | | |
| Paint is faded –typical cosmetic repairs may need done if aircraft is painted | | |

Airframe Structure Exterior Condition

| | | |
|--|--|------------------------------|
| Aircraft Rating: 5 = Excellent, 4 = Good, 3 = Average, 2 = Marginal, 1 = Poor | | Overall Rating: [3] |
| Rating Codes: A = Acceptable (No Damage), C = Corroded, D = Damaged, K = Cracked, W = Worn, N/A = Not Applicable - RMA = Required Maintenance Action | | |
| Aircraft Nose: 3A | Fuselage Top: 3A | |
| L/H Crew Door: 3A-MINOR INT. CORROSION | R/H Crew Door: 3A | |
| L/H Litter Door / Hinged Panel: 3A | R/H Hinged Panel: N/A | |
| L/H Cabin Door: 3A | R/H Cabin Door: N/A | |
| Cowlings L/H Side: 3A | Cowlings R/H Side: 3A | |
| Fuselage L/H Side: 3A | Fuselage R/H Side: 3A | |
| Tailboom L/H Side: 3A PAINT CHIPPED | Tailboom R/H Side: 3A PAINT CHIPPED | |
| L/H Horizontal Stab: 3A | R/H Horizontal Stab: 3A | |
| Vertical Fin: 3A | Baggage Door: 3A | |
| <u>Comments:</u> | | |
| L/H SWING ARM DOOR RODENDS CORRODED @ ATTACHMENT | | |
| L/H SWING ARM DOOR THUMB LATCH BROKEN | | |
| L/H TARSYN ACCESS DOOR KICK DOOR CRACKED-MINOR | | |



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Airframe Interior Structure Condition

| | | | |
|--|--------------------|------------------------------|--------------------|
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| Rating Codes: A = Acceptable (No Damage), C = Corroded, D = Damaged, K = Cracked, W = Worn, N/A = Not Applicable - RMA = Required Maintenance Action | | | |
| <u>Fuselage</u> | | | |
| Nose: | <u>3A</u> | Baggage Compartment: | <u>3A</u> |
| Left Aft Cabin Wall: | <u>3A</u> | Right Aft Cabin Wall: | <u>3A</u> |
| Floor Panels Fwd Cabin: | <u>N/A-COVERED</u> | Floor Panels Aft Cabin: | <u>N/A-COVERED</u> |
| Avionics Pedestal: | <u>3A</u> | Center Engine Service Deck: | <u>3A</u> |
| Left Engine Service Deck: | <u>3A</u> | Right Engine Service Deck: | <u>3A</u> |
| Internal Pylon Structure: | <u>3A</u> | External Pylon Structure: | <u>3A</u> |
| <u>Bell Medium Helicopter – Tailboom</u> | | | |
| Boroscope Left Longeron: | <u>3A</u> | Boroscope Right Longeron: | <u>3A</u> |
| <u>Comments:</u> | | | |
| L/H 42* GEARBOX MOUNT PLATE ATTACH RIVETS ARE IMPROPER LENGTH (NOT PULLED CORRECTLY) | | | |
| AFT T-BOOM INTERIOR HAS EXHAUST RESIDUE/SOOT AND WHAT APPEARS TO BE SOAP RESIDUE AROUND LOWER VERTICAL FIN AND STINGER SUPPORT STRUCTURE | | | |

Drivetrain and Accessories

| | | | |
|--|------------------|------------------------------|------------------|
| Aircraft Rating: 5 = Excellent, 4 = Good, 3 = Average, 2 = Marginal, 1 = Poor | | Overall Rating: [3] | |
| Rating Codes: A = Acceptable (No Damage), C = Corroded, D = Damaged, K = Cracked, W = Worn, N/A = Not Applicable - RMA = Required Maintenance Action | | | |
| Main Rotor Hub: | <u>3A</u> | <u>Boroscope</u> | |
| Mast: | <u>3A</u> | Engine #1 Compressor: | <u>N/C/W</u> |
| Swashplate Assy: | <u>3A</u> | Engine #2 Compressor: | <u>N/C/W</u> |
| Transmission: | <u>3A</u> | Engine #1 Turbine: | <u>N/C/W</u> |
| Input Driveshaft(s): | <u>3A</u> | Engine #2 Turbine: | <u>N/C/W</u> |
| Tail Rotor Driveshaft(s): | <u>3A</u> | | |
| Tail Rotor Gearbox: | <u>3A</u> | | |
| Oil Cooler: | <u>3A</u> | | |
| <u>Main Rotor</u> | | <u>Tail Rotor</u> | |
| S/N: <u>A-529</u> | Rating: <u>3</u> | S/N: <u>A-12232 (-113)</u> | Rating: <u>3</u> |
| S/N: <u>A-596</u> | Rating: <u>3</u> | S/N: <u>A-16955 (-133)</u> | Rating: <u>3</u> |
| S/N: <u>A-541</u> | Rating: <u>3</u> | | |
| S/N: <u>A-591</u> | Rating: <u>3</u> | | |
| <u>Comments:</u> M/R BLADES VERY DIRTY | | | |
| ROTOR BRAKE DISK WORN. M/R UPPER AND LOWER CONES NOT PROSEALED. | | | |
| ALL 4 M/R SPINDLE BEARINGS SHOWING SIGNS OF RUBBER EXTRUSION. | | | |
| T/R HANGER BEARING WITNESS MARKS MISSING. | | | |



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Equipment Installation

| YES | NO | | YES | NO | |
|--------------------------|--------------------------|---------------------------------|--------------------------|--------------------------|--|
| X | <input type="checkbox"/> | Dual Controls | X | <input type="checkbox"/> | High Skid Gear |
| X | <input type="checkbox"/> | Rotor Brake | <input type="checkbox"/> | X | Flight Step or Power Step |
| X | <input type="checkbox"/> | Flight Instrument Group | <input type="checkbox"/> | X | Standard Skid Gear |
| X | <input type="checkbox"/> | Co-Pilot's Instruments | <input type="checkbox"/> | X | Heavy Duty Battery |
| <input type="checkbox"/> | <input type="checkbox"/> | Soundproofing-----UNK | <input type="checkbox"/> | X | Environmental Control Unit (Bleed Air) |
| <input type="checkbox"/> | X | Auto-relight | X | <input type="checkbox"/> | Air Conditioner (Type/Mfg) KEITH |
| X | <input type="checkbox"/> | Fire Extinguisher | X | <input type="checkbox"/> | Heater (Type/Mfg) BHT |
| <input type="checkbox"/> | X | Cargo Hook Provisions | <input type="checkbox"/> | X | Emergency Float Provisions |
| <input type="checkbox"/> | X | Cargo Hook Assembly | <input type="checkbox"/> | X | Emergency Floats Complete |
| <input type="checkbox"/> | X | Passenger Wedge Windows | X | <input type="checkbox"/> | Auto-Pilot (Type/Mfg.) __SPERRY__ |
| X | <input type="checkbox"/> | Crew Shoulder Harness | <input type="checkbox"/> | X | Cabin Floor Protectors-EMS FLOOR |
| X | <input type="checkbox"/> | Passenger Shoulder Harness | <input type="checkbox"/> | X | Baggage Floor Protector |
| <input type="checkbox"/> | X | Crew Door Openers | <input type="checkbox"/> | X | Baggage Door Protector |
| <input type="checkbox"/> | X | Passenger Door Opener | X | <input type="checkbox"/> | Wire Strike Protection System |
| <input type="checkbox"/> | X | Particle Separator | <input type="checkbox"/> | X | Crew Wedge Windows |
| <input type="checkbox"/> | X | Litter Provisions Only | X | <input type="checkbox"/> | Ground Handling Wheels |
| X | <input type="checkbox"/> | Litters, Qty. __2__ | X | <input type="checkbox"/> | First Aid Kit |
| <input type="checkbox"/> | X | Baggage Extender | X | <input type="checkbox"/> | Covers & Tie Downs |
| X | <input type="checkbox"/> | Aux. Battery Installation--EMS | <input type="checkbox"/> | X | Snow Baffles or Winterization Kit |
| <input type="checkbox"/> | X | Engine Scavenge Oil Filter | <input type="checkbox"/> | X | Refreshment Center |
| X | <input type="checkbox"/> | Aux. Fuel Kit or Range Extender | <input type="checkbox"/> | <input type="checkbox"/> | |

Additional Equipment Installed - Attach a separate sheet for any additional equipment installed, if necessary.

| | |
|--------------------------------------|--|
| P.A.R-POWER ANALYZER RECORDER | |
| | |
| | |
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Comments: _____

INLET COVER/PLUG MISSING

AIRCRAFT IS EQUIPPED WITH "KEYSTONE EMS INTERIOR" WITH "HELIDYNE LITTER SYSTEMS"

AIRCRAFT IS NOT EQUIPPED WITH HOIST PROVISIONS



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Avionics Installation

| <u>Item</u> | <input type="checkbox"/> IFR <input type="checkbox"/> VFR | | <u>Comments</u> |
|-------------------------------------|---|----------------------|---|
| | <u>Mfg.</u> | <u>Model Number</u> | |
| Audio Panel | NAT | AA-95 | |
| #1 VHF Com Radio | BK | KTR908 | |
| #2 VHF Com Radio | BK | KTR908 | |
| #1 VHF Nav Radio | BK | KNR34 | |
| #2 VHF Nav Radio | BK | KNR34 | |
| ADF | BK | KDF805 | |
| DME | BK | KDM706A | |
| Marker Beacon Receiver | | | SEE NAV 1 |
| Transponder | BK | KT70 / KXP756 | |
| Encoder | UNK | UNK | <input type="checkbox"/> Mode C, <input checked="" type="checkbox"/> Mode S, <input type="checkbox"/> Unknown |
| Loran-C | ---- | | |
| RNAV | ----- | | |
| GPS | BK | KLN900 | 2 EA |
| Radar Altimeter | HONEYWELL | RT300 | |
| Weather Radar / Storm Scope | GOODRICH | WX500 | HONEYWELL WX RADAR |
| Terrain Awareness / Ground Prox | HONEYWELL | MKXXII | |
| Standby Attitude Indicator | JET | 5011297-01 | |
| Cockpit Voice Recorder | N/A | | |
| Flight Data Recorder | N/A | | |
| ELT | NARCO | ELT910—NOT 406MHZ | 406 MHz <input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> Unknown |
| Headsets [Qty. UNK] | | | |
| Intercom System [Places <u>8</u>] | | | Voice Activated <input type="checkbox"/> Yes, <input type="checkbox"/> No, <input type="checkbox"/> Unknown |

Additional Avionics Installed (List Below)

| <u>Item</u> | <u>Mfg.</u> | <u>Model Number</u> | <u>Comments</u> |
|-------------|-------------|---------------------|-----------------|
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| | | | |

Comments: _____



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Miscellaneous

(Answer as many questions as possible. If information is not available, indicate by writing "UNK".)

- 1. Date of last annual inspection Feb. 2009
- 2. What is aircraft Empty Weight? 8395.9
- 3. Does this aircraft have a damage history? Yes, No **TBD**

List any Damage, Incidents, Accidents, Sudden Stoppages, Hot Starts, etc: _____

Logbooks require review to determine damage history, incidents, etc.

4. What facility or whom has been maintaining this aircraft? List from most current to least current.

| <u>Name of person or company</u> | <u>Location</u> | <u>Type of certificate held</u> | | | |
|----------------------------------|-------------------|---------------------------------|-------------------------------|---|---------------------------------|
| Air logistics | Gulf Coast | <input type="checkbox"/> A&P | <input type="checkbox"/> I.A. | <input type="checkbox"/> FAA Repair Station | <input type="checkbox"/> Other: |
| BHTI | UNK | <input type="checkbox"/> A&P | <input type="checkbox"/> I.A. | <input type="checkbox"/> FAA Repair Station | <input type="checkbox"/> Other: |
| Erlanger/liforce | Tn. | <input type="checkbox"/> A&P | <input type="checkbox"/> I.A. | <input type="checkbox"/> FAA Repair Station | <input type="checkbox"/> Other: |
| | | <input type="checkbox"/> A&P | <input type="checkbox"/> I.A. | <input type="checkbox"/> FAA Repair Station | <input type="checkbox"/> Other: |
| | | <input type="checkbox"/> A&P | <input type="checkbox"/> I.A. | <input type="checkbox"/> FAA Repair Station | <input type="checkbox"/> Other: |
| | | <input type="checkbox"/> A&P | <input type="checkbox"/> I.A. | <input type="checkbox"/> FAA Repair Station | <input type="checkbox"/> Other: |
| | | <input type="checkbox"/> A&P | <input type="checkbox"/> I.A. | <input type="checkbox"/> FAA Repair Station | <input type="checkbox"/> Other: |

5. Has the Engine(s) or Power Section(s) been Overhauled or Repaired? Yes, No

If so, by whom? **#1, #2 and C-box repaired/overhauled by P&W**

6. Indicate the Chain of Ownership. List from most current to least current.

| <u>Name of Owner</u> | <u>Location</u> | <u>Type of Use</u> |
|---------------------------|-------------------|-----------------------------|
| Air logistics | Gulf Coast | TT 0.0 to 3226.4 |
| BHTI | Various | TT 3226.4 to 3351.7 |
| Erlanger / Liforce | TN. | TT 3351.7 to present |
| | | |
| | | |
| | | |



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Miscellaneous continued . . .

| |
|---|
| 7. Perform Component and Accessory Review for the Time Remaining to Overhaul, Retirement, and/or Inspection. Attach appropriate form for this model aircraft. See current owners tracking report |
| 8. Perform pre-purchase functional check. Attach appropriate form for this model aircraft. Power check only. |
| 9. Take photos of complete helicopter (outside of hangar with as little background clutter as possible). Take photos of interior aft cabin, instrument panel, and any special equipment or special interest areas of the helicopter such as damaged areas. |
| 10. What other information may be of importance concerning this aircraft? Found M/R damper bridge p/n 412-010-185-101R s/n A19-00644 service life incorrect on Mx. tracking report—service life is 10000 hr as per BHT MM Airworthiness limitations schedule table 4-1. The service life of this part appears to have been exceeded. E L T battery due Mar.2010 as per exterior placard on unit |
| Power check on #1 Eng OAT(28°C), PA (820), Torque (50%),ITT(750* C) = (+20), N1=97.8% |
| Power check on #2 Eng OAT(28°C), PA (820), Torque (50%), ITT (720°C) = (+50) N1= 97.8% |
| |

Airframe Maintenance Logbook Review

| Logbook No. | FROM | | TO | |
|-------------|--|---------------------|----------|---------------------|
| | Date | Airframe Total Time | Date | Airframe Total Time |
| 94 | 12-7-09 | 17070.9 | present | n/a |
| | Comments: | | | |
| 93 | 2-7-09 | 16921.7 | 12-7-09 | 17070.9 |
| | Comments: | | | |
| 92 | 9-25-08 | 16643.7 | 2-7-09 | 16921.7 |
| | Comments: | | | |
| 91 | 6-9-08 | 16356.7 | 9-25-08 | 16643.7 |
| | Comments: | | | |
| 90 | 06-07-08 | 16353.2 | 6-9-08 | 16356.7 |
| | Comments: | | | |
| 89 | 12-19-07 | 16055.1 | 06-07-08 | 16353.2 |
| | Comments: #1 Power section replaced with S/N 63466 | | | |
| 88 | 8-13-07 | 15770.8 | 16055.1 | 12-18-07 |
| | Comments: | | | |
| | | | | |
| | Comments: | | | |



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Engine Logbook Review

| Logbook No. | FROM | | TO | |
|-------------------------------------|---|-------------------|----------|-------------------|
| | Date | Engine Total Time | Date | Engine Total Time |
| #1 Power section S/N CP-PS 63466 | 07-14-92 | 0.0 | 12-22-08 | 4187.8 |
| | Comments: D.O.M 7/92 Mandatory bulletins C/W by P&W on 07-29-05 | | | |
| #2 Power Section S/N CP-PS 62253 | 08-21-87 | 3506.0 | 02-17-10 | 13820.9 |
| | Comments: See logbook for history. Overhaul C/W @ 10904.0 Oct. 2004 Previously installed in Bell 212 S/N 31154 D.O.M 03-1981 | | | |
| Combing Gearbox S/N CP-GB 1998 | 11-28-80 | 0.0 | | |
| | Comments: D.O.M 11/80 Overhaul C/W @3072.7 | | | |

Flight / Journey Log Review

| Logbook No. | FROM | | TO | |
|-------------|-----------|---------------------|------|---------------------|
| | Date | Airframe Total Time | Date | Airframe Total Time |
| N/A | | | | |
| | Comments: | | | |
| | | | | |
| | Comments: | | | |
| | | | | |
| | Comments: | | | |
| | | | | |
| | Comments: | | | |
| | | | | |
| | Comments: | | | |

Attachments

(Check if applicable)

| | |
|--|--|
| <input type="checkbox"/> Airframe Component Historical Service Record | <input type="checkbox"/> Engine Component Historical Service Record |
| <input type="checkbox"/> Airframe Airworthiness Directive Compliance Record | <input type="checkbox"/> Engine Airworthiness Directive Compliance Record |
| <input type="checkbox"/> Airframe Mandatory Service Bulletin Compliance Record | <input type="checkbox"/> Engine Mandatory Service Bulletin Compliance Record |
| <input type="checkbox"/> Airframe Service Bulletin Compliance Record | <input type="checkbox"/> Engine Service Bulletin Compliance Record |
| <input type="checkbox"/> Additional Equipment Listing | |
| <input type="checkbox"/> Digital Photos or Film Number of Exposures: [] | |
| <input type="checkbox"/> Other Specify _____ | |
| <input type="checkbox"/> Other Specify _____ | |