



A TIME MANUFACTURING COMPANY

Aspen Aerials, Inc. *4303 West 1st Street *Duluth, Minnesota *55807 *USA

Phone: 218-624-1111 *Fax: 218-624-1714 *E-Mail address: service@aspenaerials.com

Alabama Department of Transportation
Dexter Peters
1413 Coliseum Blvd.
Montgomery, Alabama 36110



Dear Dexter,

Please find attached , the results of the inspection I performed on 08/07/2024

You will note that the unit underwent both a visual and operational inspection. The enclosed report is produced in a format that follows the inspection process. Discrepancies found during the inspection are noted under each category. Any discrepancy taken care of during the inspection, will be noted as well.

Thank you for allowing us the opportunity to perform the Annual Inspection on your Underbridge Inspection truck. If you have any questions regarding this inspection please let us know.

Andrew Skinner
Aspen Aerials
1(800)888-2773
Andrewskinner@aspenaerials.com



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ANNUAL INSPECTION REPORT

Prepared By Andrew Skinner Serial Number 10101 Model UB50 Customer unit # ST-11387

Customer Alabama Dept. of Transportation Date August 7, 2024

Contact Dexter Peters Phone # (334) 241-4492

Address 1413 Coliseum Blvd. Email Address Petersd@dot.state.al.us

City Montgomery State/Province Alabama Zip Code 36110

Inservice Date September 29, 2005 ☒ First Rebuild Completed Date June 16, 2016

☐ Second Rebuild Completed Date

Rebuild is due on: Date June 16, 2026

PTO HOURS 2,192 CHASSIS HOURS 4,496

AUX ENG. HOURS 365 CHASSIS MILES 56,857

TEST AND REPORT LIMITATIONS

This report is provided to you with the understanding that ASPEN AERIALS, INC.'s responsibility is solely to conduct the inspection and assist you with the interpretation of the results. The decisions you make thereafter, concerning the equipment, are your responsibility. Aspen Aerials is not responsible for decisions you make or their consequences.

WARNING

This inspection determines the state of the equipment only at the time the inspection was performed! Any overloads, accidents or abuse of this equipment, after the test, could result in the inspection performed, no longer being valid. Structural damage may have occurred even though the equipment visually may appear intact and usable after said overloads accidents or abuse. Furthermore, materials experience a normal aging process whether abuse occurs or not. Therefore, the unit must be inspected before each use, to insure its structural integrity.

Description of codes used in this report	Defect Code
Immediate action is required - Take unit out of service	1 <u>CRITICAL</u>
Repair as soon as possible, it may become critical	2
Repair soon, next time the unit is in for maintenance	3
No repair needed. Area should be watched for further degradation	4
Review Notes prior to using unit	5
Item Inspected and no work is required	OK
Not Applicable	NA

WELDING NOTE

Aspen Aerials requires that all structural welding on this unit, be performed to AWS D1.1 steel and D1.2 aluminum standards. Contact the Service Department at Aspen Aerials for welding instructions, prior to any welding being performed.

MANUALS AND DECALS

- ☒ ANSI/SIA Manual of Responsibilities in the manual storage box
- ☒ Operators & Service manual with truck
- ☒ Capacity decals in place, secure & legible, at all control stations
- ☒ All safety & instructional decals installed, secure and legible.

Defect Code

Notes:

Keep a copy of the operators manual with the unit at all times.

Everything was compliant at time of inspection.

TRUCK CAB AND UNIT POWER PANEL

- ☒ Chassis instrument panel checked
- ☒ Unit power, switch panel checked and operational
 - ☒ 2 - Speed
 - ☒ Tag/Pusher Axle function
 - ☒ Tag/Pusher Axle pressure
 - ☒ Windshield
 - ☒ Lights

Defect Code

Notes:

Everything was compliant at time of inspection.

ELECTRICAL WIRES AND HYDRAULIC HOSES

Wires Hoses

- ☒ ☒ Secured , ties and clamps checked
- ☒ ☒ Pivot points and access holes checked
- ☒ ☒ Checked for wear and rubbing
- ☒ ☒ Wrap and protective covering in place
- ☒ Din Connectors
- ☒ 12Volt
- ☒ 120Volt

Defect Code

Notes:

Monitor the hoses and wires running through the booms and turntables for proper slack, adjust as needed. Make sure all exposed hoses and wires are covered with hose wrap.

Boom 2 hockey puck missing on inside of Boom 2. Recommend replacing.

LIMIT SYSTEM

- ☒ Test all switches for proper functioning
- ☒ Mounting
- ☒ T-2 plate, switch contact
- ☒ Axle Lock Interlock
- ☒ Limit switch function panel checked
- ☒ LED Lights

Type

Defect Code

Notes:

Everything was compliant at time of inspection.

HYDRAULIC CYLINDERS

- ☒ Check for leaks or damage
- ☒ Visually Inspect Welds
- ☒ Fittings
- ☒ Holding Valves
- ☒ Pins
- ☒ Check for Rust/Corrosion
- ☒ Check that updates are installed

Defect Code

Notes:

Keep all exposed cylinder rods lubricated when the truck is not in use.

Serial Number

INTERCOM SYSTEM

- Test ☒ Cab station ☒ Platform station
☒ T1 station ☒ Check headset at each station
- Number of headset stations two
- ☒ Wires
☒ Fasteners

Defect Code #3

Notes:

Push to talk button wore off in cab. Recommend replacing.

CONTROL SYSTEM

- ☒ All joysticks/push button controls return to neutral when released
☒ Check condition of control enclosures and protective boots
☒ Check control enable system ☒ Fast Slow function
☒ Foot Switch, if equipped ☒ Control Adjustment function
☒ Cable Connections ☒ Platform Controller
☒ Control Set Installation ☒ Ground Controller

Is unit equipped with a Plus-One system? No

Was a program revision installed during this inspection? No

Defect Code OK

Notes:

Everything was compliant at time of inspection.

Type of Controls Superflex

Program Rev. N/A

Ground Control # N/A

Platform Control # N/A

CHASSIS, SUBFRAME, PEDESTAL, DECK, BODY

- ☒ Visually Inspect Welds ☒ Engine Area
☒ Suspension ☒ Mud Flaps
☒ Frame Clips ☒ Lights
☒ Mounting Bolts ☒ Tag/Pusher Axle Components
☒ Body boxes ☒ Check subframe condition
- ☒ Tires

Defect Code OK

Notes:

Monitor air pressure in tires at all times.

Everything was compliant at time of inspection.

AUXILIARY ENGINE, COMPRESSOR, GENERATOR

- ☒ Battery connections checked ☒ Engine Oil
☒ Hoses/Wires ☒ Coolant
☒ Mounting ☒ Belts
☒ GFI Outlets ☒ Exhaust
☒ Load Center
☒ AC Electrical System

Defect Code OK

Notes:

Everything was compliant at time of inspection.

Generator output

120 VAC @ 60Hz

Air compressor loads

N/A

Serial Number

10101

Air Filter Part # 651966

Oil Filter Part # 651965

Fuel Filter Part # 651967

HYDRAULIC SYSTEM

- ☒ Hydraulic fluid level
- ☒ Tank condition, gauges, filters, cap
- ☒ Check hydraulic pressures and ensure proper adjustment
- ☒ PTO and Pump operation ☒ Truck ☒ Auxiliary engine
- ☒ Port reliefs
- ☒ Perform holding valve test
- ☒ Emergency Override System
- ☒ Axle Lock / Unit Selector
- ☒ Mounting of Components
- ☒ Dump Valve Blocks

Defect Code

Notes:

Aspen Aerials recommends that all filters get replaced annually and the hydraulic fluid be replaced every five years.

Everything was compliant at time of inspection.

Return Filter Part #

Pressure Filter Part #

Leveling Filter Part #

AXLE LOCK AND COUNTERWEIGHT SYSTEMS

- | Front Locks | Rear Locks | |
|-------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Visually Inspect Welds |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Operation, in/out, contact with switches |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Wires and hoses routing checked |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Check clearances |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Lubrication |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Cylinders |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Fasteners |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Torque Mounting Bolts |
| <input checked="" type="checkbox"/> | | Torque Spring Bolts |

Rear Sliding counterweight installed?

Defect Code

Notes:

Everything was compliant at time of inspection.

- ☒ Diverter valve and springs checked
- ☒ Drive System ☒ Operation, in/out, contact with switches

TURNTABLES #1 AND #2

- | | | |
|---|--|--|
| <input checked="" type="checkbox"/> Turntable bolts inspected and torque tested | <input checked="" type="checkbox"/> T1 | <input checked="" type="checkbox"/> T2 |
| <input checked="" type="checkbox"/> Visually inspect bearings | <input type="text" value="T1 245 ft/lbs"/> | <input type="text" value="T2 245 ft/lbs"/> |
| <input checked="" type="checkbox"/> Check operation | <input checked="" type="checkbox"/> T1 | <input checked="" type="checkbox"/> T2 |
| <input checked="" type="checkbox"/> Gear Box Mounting | <input type="text" value="T1 93 ft/lbs"/> | <input type="text" value="T2 93 ft/lbs"/> |
| <input checked="" type="checkbox"/> Gear Box Operation | <input checked="" type="checkbox"/> T1 | <input checked="" type="checkbox"/> T2 |
| <input checked="" type="checkbox"/> Pins | <input checked="" type="checkbox"/> Leveling Arms, if equipped | |
| <input checked="" type="checkbox"/> Bushings | <input checked="" type="checkbox"/> Leveling Arm Pin , if equipped | |
| <input checked="" type="checkbox"/> Lubrication | <input type="checkbox"/> T2 leveling Cylinder , if equipped | |
| <input checked="" type="checkbox"/> Guards | | |

Are brakes installed? Brake torque value T-1 ft/lbs
 Brake torque value T-2 ft/lbs

Serial Number

Defect Code

Notes:

Everything was compliant at time of inspection.

BOOMS

- ☒ Visually inspect welds
- ☒ Visually inspect all cylinder connections

☒ Pins

Are pin keepers installed?

No

☒ Bushings

N/A

N/A

☒ Lubrication☒ Rollers☒ Wearpads☒ Guards☒ Tie Down Strap☒ Boom Rest☒ Linkarms/Pivots

Boom Wear Pad Measurements (A-52)

N/A

Defect Code #3

Notes:

Possible defect in platform driver side lower corner.
Recommend NDT test.

PLATFORM or WALKWAY

- ☒ Check mounting installation
- ☒ Visually inspect welds and construction
- ☒ Access door latches working properly
- ☒ Check for loose and missing parts
- ☒ Safety lanyard connections
- ☒ Platform Rests
- ☒ Slide Condition
- ☒ Wear Pads
- ☒ Tie off Connection
- ☒ Ladder (if installed)

☒ Heater operation☒ 12V light receptacles☒ 120v/220v Electrical Outlets

Defect Code OK

Notes:

Everything was compliant at time of inspection.

TILT ALARM / ENGINE KILL SYSTEMSTest engine kill system ☒ T1 ☒ Platform ☒ Cab

Other Locations N/A

☒ Test stepping relays☒ Test tilt alarm horn operation☒ Check mounting installation

Defect Code OK

Notes:

Emergency stops operational at time of inspection.

Tilt alarm operational at time of inspection.

OTHER

Unauthorized Modifications or Additions

No

☒ Paint and overall appearance☒ Applicable safety bulletins completed☒ Greasing and lubricating☒ Decals

Is hy-rail gear installed on this unit?

No

☐ Hy-rail operation☐ Hy-rail visual inspection

Defect Code OK

Notes:

Everything was compliant at time of inspection.

Any changes in personnel or ownership? Customer Comments? Other notes.

Serial Number 10101

MAINTENANCE RECOMMENDATIONS

1. Protect the exposed cylinder rods by applying a light coating of oil at least once a week.
2. When necessary, adjust all hydraulic hoses and electrical wires through the booms and pivot points.
3. Maintain the proper tire pressure, as recommended by the tire manufacturer.
4. Lubricate the unit as recommended in the service manual. Remove excessive grease.
5. Lubricate the T-1 and T-2 rotation gear teeth with open gear compound when gear teeth become dry.
6. Replace all hydraulic filters annually.
7. Test oil yearly. Change at least every 5 years
8. Remove rust that develops on components and repaint, as necessary.
9. The pin connections and boom pivot points must be kept clean and free of excessive grease and debris to allow for proper pre-operation and frequent inspections.
10. Clean and lubricate the axle lock assemblies, as required.
11. Clean and lubricate the sliding counterweight components at regular intervals (if installed).
12. The ball screw device on the sliding counterweight must be lubricated every 80 hours of operation. Use white lithium grease.
13. Lubricate the hydraulic diverter valves, at the rear sliding counterweight, weekly. Use silicone.
14. Clean the switches and buttons with electrical contact cleaner, monthly.
15. Clean dump valve cartridges, as necessary, to prevent corrosion. Apply dielectric grease for protection.
16. Each day, before the unit is operated, perform a pre-operation inspection.
17. Perform frequent inspections every 3 months or 200 hours, whichever occurs first.
18. Perform all service procedures, as outlined in the manufacturers parts and service manual.