

# Aerial Device Inspection Report

Truck Number **T-1**  
Report Number **24-755-2**  
Test Date **4/2/2024**

Customer **WEST OSS�PEE FIRE DEPT.**  
**PO BOX 643**  
**W.OSS�PEE, NH 3814**

Location **11 JEWELL HILL RD**  
Temp **55 deg** Humidity **40%**  
Wind **5 mph**  
Weather **TESTED OUTSIDE**

**Fire Truck Data**

	<i>Aerial Fire Truck</i>	<i>Chassis</i>
Manufacturer	<b>BAKER AERIALSCOPE</b>	<b>MACK</b>
Model	<b>5070-0008 190047</b>	<b>MACK CAB OVER</b>
Serial Num	<b>70205</b>	<b>CF611FAP1989</b>
Mfg Date		<b>5/1/1979</b>
Hours/Mileage		<b>2519/14852</b>

*[Handwritten Signature]*

Test Type  
**Annual**

- Visual
- Magnetic Particle
- Ultrasonic

**Tests Performed**

- Dye Penetrant
- Hardness
- Load Test

- Functional/Operational
- Spectroanalysis Hyd. Oil
- Waterway Test

**Repairs Recommended**

**Immediate Repair Required**

**Remarks**

**Please note! To receive your inspection certificate,** you will receive a NOTICE FOR INSPECTION CERTIFICATE in the mail along with your invoice. The notice will list all items on this report that may require further action. Please have your department's AHJ (Authority Having Jurisdiction) sign and date all of the noted items on this report and fax the signed report to 715-426-6941 or email to sales@atctest.com. If you have not received your notice, or if you have questions, please call 800-451-9087.

**Test and Report Limitations**

This report is provided to you with the understanding that American Test Center's responsibility is solely to conduct the test and assist you with an interpretation of the results; the decisions you make thereafter concerning the equipment are your exclusive responsibility, and American Test Center is not responsible for those decisions or their consequences. Inspection criteria is based on NFPA 1910 Chapter 23 "Performance Testing of Aerial Devices" (2024 edition).

**WARNING!**

These tests determine the state of the equipment at the time the tests were performed only! Any overloads, accidents, or abuse of this equipment after the test could result in the test performed no longer being valid, as structural damage may have occurred even though the equipment visually may appear intact and usable after said overloads, accidents, or abuse.

*[Handwritten Signature]*

James Cotton

Results reviewed with: **CARL HUDDLESTON**

*Please note! This signature indicates you have reviewed the results of this report with the test technician.*

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## Defect Comments, review with tech on site

### Class 2 Defects: Caution, use with Caution

Sign and date

#### Outriggers

##### Attachment Bolts

5/8" grade 8 bolts torque checked at 170 ft-lbs. No defects noted SIDE OUTRIGGERS. THE FRONT AND REAR OUTRIGGERS 5/8" GRADE 8 BOLTS TORQUED CHECKED AT 190FT-LBS ONLY 75% OF BOLTS COLLECTIVELY TORQUED. RECOMMEND CONTACTING MANUFACTURE FOR CLARIFICATION

##### Cylinders

FRONT LEFT, RIGHT REAR OUTRIGGERS HAVE RESIDUAL OIL WETNESS OCCURRING THAT'S PROMINENTLY DISPLAYED. RECOMMEND CLEANING TO ISOLATE POTENTIAL LEAK, IF LEAK IS PRESENT PLEASE CONTACT THE MANUFACTURE FOR REPAIR SPECS

#### Chassis

##### Truck Frame

RUSR SCALING OCCURRING THROUGHOUT ITS ENTIRETY, RECOMMEND CONTACTING THE MANUFACTURE FOR REPAIR, AND PREVENTION

#### Pedestal

##### Swing Drive Gearbox Mounting Bolts

5/8" grade 8 bolts torque checked at 190 ft-lbs. No defects noted. 50% BOLTS TORQUED DUE TO TOOL LIMITATION, AND STRUCTURAL DESIGN PLACEMENT, RECOMMEND CONTACTING THE MANUFACTURE FOR CLARIFICATION

#### Rotation Bearing

##### Lower Bearing Attachment Weld & Bolts

5/8" grade 8 bolts torque checked at 170 ft-lbs. No defects noted 70% OF BOLTS TORQUED DUE TO TOOL LIMITATION, AND BOLT DESIGN PLACEMENT. RECOMMEND CONTACTING THE MANUFACTURE FOR CLARIFICATION

##### Upper Bearing Attachment Welds & Bolts

5/8" grade 8 bolts torque checked at 190 ft-lbs. No defects noted 60% OF BOLTS TORQUED DUE TO HOSES STRUCTURAL DESIGN PLACEMENT. RECOMMEND CONTACTING THE MANUFACTURE FOR CLARIFICATION

### Class 3 Defects: Repairs needed, recommend soon or next maintenance

Sign and date

#### Measurements

##### Relief Setting, Hyd. System-Relief

Hydraulic relief setting PRESSURE GAUGE INOPERABLE, RECOMMEND CONTACTING THE MANUFACTURE FOR CLARIFICATION

#### Outriggers

##### Cylinder Hoses/Fittings

RIGHT REAR HOSES HAVE RESIDUAL OIL RESIDE WETNESS OCCURRING THROUGHOUT, RECOMMEND CLEANING TO ISOLATE POTENTIAL LEAK. IF LEAK IS PRESENT PLEASE CONTACT THE MANUFACTURE FOR REPAIR SPECS

#### Chassis



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## Defect Comments, review with tech on site

### Class 3 Defects: Repairs needed, recommend soon or next maintenance

Sign and date

#### PTO

PTO HAS RESIDUAL OIL RESIDUE WETNESS OCCURRING THROUGHOUT, RECOMMEND CLEANING TO ISOLATE POTENTIAL LEAK, IF LEAK IS PRESENT PLEASE CONTACT THE MANUFACTURE FOR REPAIR SPECS

#### Pedestal

##### Hydraulic Component & Lines

UNDERNEATH OF PEDESTAL IN A FOUR FOOT CIRCULAR DIAMETER HAS RESIDUAL OIL RESIDUE WETNESS THAT'S PROMINENTLY VISUAL. RECOMMEND CLEANING TO ISOLATE ANY POTENTIAL LEAKS, IF LEAK IS PRESENT CONTACT THE MANUFACTURE FOR REPAIRS

#### Rotation Bearing

##### Condition

NEED LUBRICATION

#### Lower Boom

##### Rest Support

Ladder rest inspected for damage and proper alignment. \_" grade 8 bolts torqued to \_ ft-lbs, all Ok. STRUCTURAL INTERGRATED ALSO LADDER REST SUPPORT STRUCTURAL IS DAMAGED. RECOMMEND CONTACTING THE MANUFACTURE FOR REPAIR SPECS OR REPLACEMENT

##### Upper/Extend Cylinder

LEAKAGE OCCURRING AT THE BOTTOM OF CYLINDER, RECOMMEND CLEANING TO ISOLATE POTENTIAL LEAK, IF LEAK IS PRESENT PLEASE CONTACT THE MANUFACTURE FOR REPAIR SPECS

#### Platform

##### Leveling Cylinder, attachment, and pin retainers

CYLINDERS HAVE RESIDUAL OIL RESIDUE BUILD UP OCCURRING THROUGHOUT, RECOMMEND CLEANING TO ISOLATE POTENTIAL LEAK. IF LEAK IS PRESENT PLEASE CONTACT THE MANUFACTURE FOR REPAIR SPECS

##### Spotlights & Intercom

Platform intercom and boom illumination are INOPERABLE

## Class 4, Inspection Detail

### Elevating Platform Tests

**Load Test** Load test performed at 1000lbs. Platform carried load through all positions allowed by its capabilities and the test environment. Pre and post visual inspections revealed no permanent deformation.

**Operational Test** After passing load test, operational test procedure was performed. Ladder was taken to full elevation, maximum extension, then rotated 90 degrees. All functions were completed smoothly and without undue vibration. Completed in 112 seconds.

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## Class 4, Inspection Detail

### Elevating Platform Tests

Lower Controls Diagnostic Test Diagnostic test from lower controls completed. Operated from min to max elevation and full rotations left and right as allowed by test site. All controls, overrides, and safety devices working properly.

Platform Controls Diagnostic Test Diagnostic test from platform controls completed. Operated from min to max elevation and full rotations left and right as allowed by test site. All controls, overrides, and safety devices working properly.

### Measurements

Drift Test-Elevation Cylinders Left elevation cylinder drift 1/4" at 1 hour.  
Right elevation cylinder drift 1/4" at 1 hour.

Drift Test-Extension Cylinders FIRST DRIFT extension cylinder drift 1- 3/4" INCHES at 1 hour.  
SECOND DRIFT extension cylinder drift 0" at 1 hour.

Drift Test - Front Outrigger Cylinders Left front cylinder drift 1/16" at 1 hour.  
Right front cylinder drift 0" at 1 hour.

Drift Test - Rear Outrigger Cylinders Left rear cylinder drift 0" at 1 hour.  
Right rear cylinder drift 0" at 1 hour. SIDE OUTRIGGERS 0" LEFT, RIGHT

Rotation Bearing & Gear-Inner Race Vertical bearing movement measured .060" AT FRONT OF TURNTABLE, BOTTOM PLATE MEASUREMENT TAKEN ON WAS DIAMOND PLATE WHICH HAS FLEX PROPERTIES

Rotation Bearing & Gear-Gear Backlash measured .017" BETWEEN PINION AND BULL GEAR

Throttle RPM-Lo Setting Throttle low setting 700 RPM

Throttle RPM-Hi Setting Throttle high setting 1250 RPM

Outrigger Deploy Time, Front Front Left, deployment time 3 seconds  
Front Right, deployment time 3 seconds

Outrigger Deploy Time, Rear Rear Left, deployment time 3 seconds  
Rear Right, deployment time 3 seconds SIDE OUTRIGGERS 8 SECONDS LEFT, RIGHT

Ladder Section Alignment-First Ladder alignment measurement 1/4 INCHES

### Outriggers

Pad Outrigger pads are present, of proper construction, and are in serviceable condition.

Stiff Legs/Beam/Housing Outrigger structural components inspected for defects, welds visually inspected for fractures.

Attachment Welds Visual check of attachment welds showed no defects.

Cylinder Check Valves Cylinder valves checked for leaks, none found.

Controls Interlocks, warning devices, diverter valve, and control functions all operate within manufacturers specifications.

### Chassis

Torque Box/Frame Welds Frame attachment welds visually inspected for flaws, none found.

Torque Box/Frame Bolts 5/8" grade 8 bolts torque checked at 170 ft-lbs. No defects noted. SEEM TO BE MOUNTING PLATES WITH SPRING STRUCTURALLY INTERGRATED



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## Class 4, Inspection Detail

### Chassis

- Suspension Components Suspension components inspected for proper installation, no defects found.
- Transmission & Differential Interlocks Transmission/Aerial Device interlocks checked for proper function/operation.
- Hydraulic Pump & Mounting Hydraulic pump is properly mounted, and no leaks found.
- Hydraulic Components & Lines Aerial hydraulic components mounted on chassis inspected for kinks, cuts, abrasions, and leakage.

### Pedestal

- Mounting Bolts & Welds Pedestal attachment welds visually inspected for flaws, none found.
- Structure Visual inspection of critical welds, no defects found.
- Hydraulic Swivel Joint Rotation hydraulic swivel inspected for leakage and proper attachment.

### Turntable

- Structure Visual inspection of turntable structure, no defects found.
- Hydraulic Components & Lines Turntable hydraulic components inspected for kinks, cuts, abrasions, and leakage.
- Lower Control Operation Lower controls are clearly labeled and functioning properly. Interlocks engage properly.
- Alignment Indicator Turntable alignment indicator installed and functioning properly.
- Load Limit Indicators Load limit indicators are functioning properly.
- Auxiliary Hydraulic Power Auxiliary hydraulic power is functional.

### Lower Boom

- Heel Pins Heel pin inspected for proper installation and operation.
- Lift Cylinders Cylinder rods inspected for pitting, scoring and other defects. Cylinder rod to barrel seal inspected for leakage.
- Lift Cylinder Attachment and Pin Retainers Lift cylinder attachment points are properly installed and functioning normally.
- Upper/Extend Cylinder Attachment and Pin Retainers Upper boom extension cylinder attachment points inspected for defects.
- Ancillary Boom Ladder Ancillary ladder inspected for proper installation, damage and wear. No defects found.

### Upper Boom

- Structure Welds Visual of upper boom welds showed no defects.
- Leveling System Leveling components across upper boom are installed properly and functioning normally.
- Hydraulic Lines & Components Upper boom hydraulic components inspected for kinks, cuts, abrasions, and leakage.
- Alignment Upper boom is properly aligned with lower boom.
- Other Upper boom other.

### Platform

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## Class 4, Inspection Detail

### Platform

**Structure** Platform structure inspected for structural modifications, improper repairs, and added weight.

**Structural Welds** Platform structural welds visually inspected for cracks.

**Step & Access Door** Platform access door inspected for proper alignment and smooth operation.

**Mounting Brackets & Bolts** Platform mounting brackets and bolts inspected for defects.

**Control Operation** Platform controls function properly and are clearly labeled. Lower control override of platform controls verified.

**Electric/Hydraulic Lines & Components** All electronic and hydraulic components at the platform are correctly installed and functioning properly.

**Capacity Label** Platform capacity label is properly installed and legible.

**Monitor and Nozzle** Structural and operational inspection of the monitor performed, no defects found.

### General

**Capacity Chart Mounting** Capacity chart is present, proper, and legible.

**Upper Control Placard at Platform** Upper control placard is present, proper, and legible.

#### Controls

**Lower Control Placard at Turntable** Lower control placard is present, proper, and legible.

#### Controls

**Maximum Extension and Load** Maximum extension and load warning devices are functioning properly.

#### Warning Device

**ATC Tool Calibration** Torque Wrench, C4D600F, serial number 28488, calibration due on 5/15/2024

**ATC Tool Calibration** Torque Wrench, C3FR250F, serial number 157232, calibration due on 5/15/2024

**ATC Tool Calibration** Mag Particle, CONTOUR B100, serial number 018, calibration due on 5/15/2024

**ATC Tool Calibration** Ultrasound, DAKOTA CMX DL +, serial number 9336, calibration due on 5/22/2024