

# TIER 1 PUMPER INSPECTION

## OVER 90 TECHNICAL CHECK & INSPECTIONS

### **Visual Inspection**

- Walk-Around Visual Inspection
- Under Carriage Visual Inspection
- Pump Operation to check:
  - Pump Shifting & Primer
  - Pressure Control Device
  - Valve Operation
  - Instrument Check
- Chassis Components
- Electrical Check Cab Lighting
- Cab & Pump Instruments
- Water Tank Check
- Body & Compartment Check
- SAFETY & Equipment Check

### **Cab Exterior**

- Wiper Blades
- Cab Glass & Windows
- Cab Doors & Latches
- Mirrors & Controls
- Cab Tilting System

### **Engine**

- Check Engine Mounts
- Check Pulleys & Tighten Belts

### **Water & Foam Tanks**

- Visually Inspection
- Overflow, Fill & Vent Tower
- Drain Valve
- Tank Level Indicators

### **Cooling**

- Check Hoses & Clamps
- Check for Fluid Leaks

### **Cab Interior**

- Cab Seats & Seat Belts
- Instruments & Tachometer
- Air & Electric Horns
- Heater/Defroster/A-C

### **Under Carriage**

- Check for Corrosion & Cleanliness
- Check Frame Rails & Cross Member

### **Drivelines**

- Check Bolts on all U-Joints & Yokes

### **Pumps**

- Pump Quick Check (Non-Draft)
- Pump Shift, Lock-Up, OK Lights
- Primer Test & Vacuum Test
- Lube Grease Pump Fittings
- Tank to Pump -- Controls
- Pump to Tank Fill Control
- Pump Packing or Seal Check
- Pressure Relief Valve Check/Lube
- Pressure Governor Check
- Operate & Lube Discharge Valves
- Operate & Lube Intake Valves
- Check All Pump Instruments
- Check Heat Exchanger
- Check Pump Counter (If Provided)
- Check Pump Intake/Discharge Gauges
- Check Hose Reel
- Check Pump Plumbing, Flex-Hose, Fittings
- Check Pump Drain Valves

### **Fluid Levels: Check & Refill**

- Engine Oil Level
- Transmission Fluid
- Power Steering Fluid
- Pump Gear Box Oil
- Windshield Wiper Fluid
- Coolant Level
- Battery Fluid Level
- Pump Primer Oil Tank Level
- Cab Tilt Hydraulic System
- Brake Fluid
- Check All for Leaks

### **Tires**

- Check Tire Tread Depth
- Check & Fill Air Pressure

### **Body**

- Compartment Doors & Hinges
- Compartment Door Latches
- Body Condition
- Rust or Corrosion Damage
- Paint Condition
- Check for Accident Damage
- Check Equipment Mounting
- Hose Cover & Ladder Mountings

### **Cab Electrical**

- Battery Condition & Mountings
- Starter & Master Switch Check
- Cables & Terminals
- Headlights & High Beams
- Rear Stop/Tail/Turn Signal
- Marker & ICC Lights
- Front Turn-signals
- Cab Dome & Step Lights
- Cab Warning Lights
- Siren & Speaker
- Compartment Dome Lights
- Cab Instruments & Tachometer

### **Body Electrical**

- Step & Ground Lights
- Body Warning Lights
- Back-Up Lights & Alarm
- Compartment Lights
- Flood Lights
- Scene Lights
- Pump Panel Lights
- Hose Bed & Crosslay Bed Lighting
- Air Horns

### **Brakes**

- Check Air Brake Lines for Wear & Leaks

### **Generator (if applicable)**

- Check Fluid Levels
- Start & Operate Generator
- Check Generator Instruments
- Operate All Flood Lights

**For more information, please contact**

**Amos Bauer, Annual Services Advisor • 251-278-7279 • abauer@sunbeltfire.com**



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# TIER 2 PUMPER INSPECTION

## OVER 140 TECHNICAL CHECK & INSPECTIONS

*NFPA 1911 Annex C Figure C.3(b) - Includes all of the inspections and checks in the Tier 1 Pumper Inspection Package, plus:*

### **Cooling**

- Radiators and Intercooler
- Fan and Clutch – Visual Inspection
- Fan Shroud & Clearances
- Check Radiator

### **Transmission**

- Check Mounts
- Check Hydraulic Hoses
- Check Transmission Cooler
- Check Shift Controls

### **Engine**

- Check Hoses & Oil Leaks
- Alternator Mounting & Terminals
- Turbo Charger
- Adjust & Tighten Belts
- Test Alternator Output
- Throttle Linkage Adjustment
- Test Fan Clutch
- Test Coolant and Degrees
- Check Air Filter Condition

### **Fuel System**

- Fuel Line & Leaks
- Fuel Tank & Mounting

### **Air Intake/Filter**

- Air Intake Piping
- Air Filter Gauge Check

### **Exhaust System**

- Turbo Charger—Check Area
- Exhaust Pipes and Clearances
- Muffler and Outlet
- DPF and Emissions Equipment

### **Fluid Levels & Lubrication: Check & Refill**

- Pump Transfer Case Oil
- Check Steering Linkage
- Check Front Axle Oil Seals
- Check Brake Pedal Pivot Pin
- Check for Leaks of any type
- Visually Inspect Power Steering

### **Driveline, Wheels & Brakes**

- Driveline Carrier Bearings
- Wheel Lugs for Tightness
- Brake Pad/Disc Condition
- Air Pressure & Build-up Time
- Parking Brake Operation

### **Electrical**

- Ladder/Equipment Rack Operation
- Check +/- Battery Cables
- Check Starting cables
- Test Condition of Batteries
- Cab Tilt Electrical Test
- Electric Panel Checks
- Siren, Primer, Reel Solenoids
- Amp and Voltmeter Test
- Electrical System (7) Checks

### **Body**

- Adjustments & Checks

### **Water Tank**

- Check Dump and Chutes

### **Under Carriage**

- Check for Under Body Corrosion & Paint
- Check Body & Cab Mountings
- Check Wiring, Air Lines, Etc

### **Axles**

- Wheel Bearings Check
- King Pins Check
- Torque the Suspension Rods & Shocks
- Torque the Wheel Lug Nuts

### **Steering**

- Check Linkage and Tie Rods
- Power Steering Box
- Power Steering Pump & Hoses

### **Pump**

- RPM Counter Check
- Check Heat Exchanger & Lines

### **Road & Condition Test**

## **Our Commitment to Service**

Annual Inspections and Preventive Maintenance of your fire apparatus can find potential problems and head them off before they develop into a major issue. We focus on saving you money for costly repairs and unwanted “Out-Of-Service” time!

## **NFPA #1911 Requirements**

### **NFPA 1911 – 4.3.1.1**

Any person performing diagnostic checks, inspections, testing, or maintenance of the fire apparatus shall meet the qualifications of NFPA 1071, Standard for Emergency Vehicle Technician Professional Qualifications, or the equivalent.

**For more information, please contact**

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