

# Engine Inspection

Unit #: \_\_\_\_\_ LP #: \_\_\_\_\_ VIN #: \_\_\_\_\_ Date: \_\_\_\_\_

Truck Chassis Make/Model: \_\_\_\_\_ Engine Man. & Type: \_\_\_\_\_ Miles Driven:

Truck Hr. Mtr:       Odometer:       Mi. Pump Hour Meter:

Last PM Service (Date & Mi./Hrs.): Chassis: / /       Mi. Pump Engine: / /

Next PM Service for Pump Engine: / / \_\_\_\_\_ or       Hrs.

<u>Chassis Engine</u>	P	A	F	<u>Chassis Continued</u>	P	A	F	<u>Auxiliary Engine</u>	P	A	F
<i>engine oil</i>				<i>transfer case</i>				<i>oil level &amp; filter</i>			
<i>fluid leaks</i>				<i>front &amp; rear suspension</i>				<i>coolant level &amp; reservoir</i>			
<i>power steering fluid</i>				<i>spring hangers &amp; frame</i>				<i>fuel filters &amp; hoses</i>			
<i>coolant level</i>				<i>tire pressure &amp; condition</i>				<i>air filter &amp; intake ducting</i>			
<i>auto transmission oil</i>				<i>brake lines / hoses</i>				<i>pulleys, fan &amp; accessories</i>			
<i>fuel filter/water sep. cond.</i>				front axle oil (type 3)				<i>battery, cables, engine start</i>			
<i>oil filters</i>				air tanks & filter drier (type 3)				<b>Pump &amp; Plumbing Package</b>			
<i>air filters (engine &amp; AC)</i>				<b><u>Cab &amp; Interior</u></b>				<i>valves &amp; manifold</i>			
<i>coolant filter</i>				<i>engine start</i>				<i>high pressure hoses</i>			
<i>fan hub &amp; blades</i>				<i>air brake test</i>				hose reels			
<i>radiator &amp; hoses</i>				<i>seat &amp; seat belts</i>				gearbox oil level			
<i>intercooler &amp; CAC hoses</i>				<i>instrument cluster &amp; codes</i>				gauges			
<i>transmission cooler</i>				<i>fuel, DEF, &amp; regen needs</i>				foam system			
<i>oil cooler</i>				<i>exterior lighting operational</i>				water & foam tanks			
<i>pulleys &amp; accessories</i>				windows clean and intact				pressure safety shutdown			
<i>belts &amp; hoses</i>				mirrors clean & adjusted				primer operation			
<i>brake fluid reservoir</i>				VHF radio mounting & operation				dump chute			
<i>power booster &amp; hoses</i>				registration current				<b>*Addl. Annual Insp. Items*</b>			
<i>exhaust &amp; ducting</i>				horn & backup alarm				<i>DPF &amp; DEF system cond.</i>			
<i>air compressor &amp; hoses</i>				switches operable				<i>brake rotors/drums</i>			
<i>air intake &amp; ducting</i>				windshield wiper				<i>brake chambers/calipers</i>			
<i>wiring &amp; harnesses</i>				GPS, mounting, & cable				<i>f&amp;r axle oil, hubs, &amp; driveline</i>			
<i>overall engine condition</i>				clean & organized				<i>pump &amp; gearbox bolts</i>			
windshield washer fluid				heater & ac operational				<i>manifold fasteners</i>			
batteries & cables				overhead lights				<i>speed increaser fasteners</i>			
<b><u>Chassis</u></b>				vehicle use book & forms				<i>engine &amp; pump turbocharger</i>			
<i>wheels &amp; lugs (rusty/loose)</i>				meets NUS stocking				<i>motor mounts &amp; hardware</i>			
<i>tire pressure, age &amp; cond.</i>				emergency triangles				<i>PTO controls (if equipped)</i>			
<i>steering components</i>				fire extinguisher				<i>charging systems</i>			
<i>axle U-bolts &amp; hardware</i>				maintenance up to date				<i>wiring &amp; harness</i>			
<i>U-joints &amp; driveline</i>				transmission operable				<i>throttle linkage</i>			

\* the items listed under additional annual inspection items and all other items listed are to be inspected by mechanic at least annually\*

Comments: \_\_\_\_\_

Post Fire Check:  Weekly Check:  Monthly Check:  Out Of Service:

Ready For Assignment (yes/no): \_\_\_\_\_ Post use & monthly inspections to be submitted with mileage/hr. log

Inspector Name (Print): \_\_\_\_\_ Supervisor Position: \_\_\_\_\_

Inspector Signature: \_\_\_\_\_ Supervisor Approval: \_\_\_\_\_

# Inspection Instructions

**Note:** *Inspection items that are not applicable to engine should be marked (NA) in the pass column. Do not leave any inspection items blank. (NA) items should not be included when adding up checkpoints for determining engine readiness.*

1. **Unit #:** Four digit agency assigned identifier. (9661, 9260, 9430, etc.)
2. **LP #:** License plate number registered with department of transportation.
3. **Vin #:** Manufacturer assigned alpha numeric identification code. (1HTWEAZR4DJ246510, 1FDXF47F83EA81685, etc.)
4. **Date:** Day inspection is performed. (post use & monthly inspections should submitted with mileage/hr. log)
5. **Truck Chassis Model:** Manufacturer of vehicle and type. Example - Ford F550, International Workstar, etc.
6. **Engine Manufacturer & Type:** Manufacturer name of fire package and ICS type. Example - Skeeter T6, BME T3 etc.
7. **Miles Driven:** Miles driven for this unit this month.
8. **Truck Hour Meter:** Truck hour meter reading before engine is started and ran during inspection.
9. **Odometer:** Current vehicle mileage at the time inspection is performed.
10. **Pump Hour meter:** Pump hour meter reading before engine is started and ran during inspection.
11. **Last PM Service:** Date, Hr. & Mi. for last preventative maintenance for chassis, pump, & pump engine (old form 8).
12. **Next PM Service for Pump Engine:** Date & hours for next scheduled preventative maintenance for pump engine.
13. **Comments:** If any checkpoint does not fall into pass category, give brief description of problems identified by inspector. Example: "Batteries & cables box is checked "A" due to slight corrosion of battery terminals."
14. **Post Fire Check:** Check if inspection is performed due to engine operating on assignment.
15. **Weekly/Monthly Check:** Check whether weekly or monthly inspection. (monthly and post use at minimum)
16. **Ready For Assignment:** Check if engine has passed inspection and condition has met agency expectations for firefighting equipment (full of fuel, fully operable, comms equipment operable & machine stocking).
17. **Out Of Service:** Check if engine fails inspection and condition does not meet agency expectations for firefighting equipment. (If checked, engine will not be allowed on active fireline until failed points are corrected.)
18. **Inspector Name:** Agency recognized name of person performing inspection; first and last name printed. (no nicknames)
19. **Inspector Signature:** Signature of person performing inspection; verifying that the inspection was performed properly, honestly and information entered into the inspection form is correct and not altered to meet "Ready For Assignment" status.
20. **Supervisor Position:** Position of person supervising inspector. In most situations it should be the workplace supervisor for the employee (RFC, TFC, ACRFC). In cases on incident where workplace supervisor is not available seek supervisor approval from the incident overhead. (TFLD, STLD, DIVS, IC, etc.)
21. **Supervisor Signature:** Signature of person supervising inspector and equipment. Signature states inspection was conducted properly, honestly and engine is in compliance with agency expectations for firefighting equip.

## Out Of Service Instructions

1. *Engine shall be determined "Out Of Service" if any checkpoint listed in red (italicized), falls into the "FAIL" category.*
2. Engine shall be determined "Out Of Service" if 5 or more checkpoints listed in black, fall into the "FAIL" Category.
3. Engine Shall be Determined "Out Of Service" if 9 or more checkpoints in red or black, fall into the 'Attention' Category.

**Note:** *Instructions for "Out of Service" are general guidelines to aid inspectors/operators in quickly determining an "Out of Service" situation. These situations can be controversial and circumstantial due to complexity level of incident, incident objectives and operator skill and experience. An "Out of Service" inspection can be overridden with supervisor approval if the incident situation warrants such actions. If operator safety may be jeopardized due to putting engine back in service; the override should be discarded and repairs should be performed before allowing the engine back on fireline activities.*