

## ENGINE HANDS-ON INSPECTION FORM

This inspection form may be used in conjunction with Optional Form 296

Last edit: 2/17/22

<b>Company Name:</b>		<b>Date of Inspection:</b>	
<b>Equipment Unique ID:</b>		<b>Odometer Reading:</b>	
<b>Engine Type (3-6 NWCG):</b>		<b>Tank Capacity (gallons):</b>	
<b>License Plate #:</b>		<b>State:</b>	
<b>Make:</b>	<b>Model:</b>	<b>Year:</b>	
<b>VIN#:</b>		<b>Yes</b>	<b>No</b>
Operator of vehicles having GVWR of 26,001 lbs. or greater meets all CDL requirements and endorsements required for state in which operator is licensed			
All Wheel Drive <b>OR</b> Multiple Axle Drive Capability (required for all Type 6 engines)			
Company Name affixed on both sides of cab			
Equipment ID # affixed on both sides of cab			
DOT # on both sides of vehicle (required for all vehicles 10,001 lbs. or greater)			
Current DOT or CVSA inspection (required if over 10,001 lbs. GVWR)			
<b>Minimum Engine Inventory</b>		<b>Yes</b>	<b>No</b>
2 – Nozzle, combo fog/straight stream, 1 ½” NH Female			
2 – Nozzle, combo fog/straight stream, 1” NPSH Female			
2 – Nozzle, Adjustable ¾” Garden Hose			
1 – Nozzle, Foam 1 ½” NH			
1 – Double Male, 1 ½” NH			
1 – Double Female, 1 ½” NH			
1 – Double Male, 1” NPSH			
1 – Double Female, 1” NPSH			
2 – Gated Wye, 1 ½” NH			
2 – Gated Wye, 1” NPSH			
1 – Gated Wye, ¾” Garden Hose			
1 – Reducer, 2 ½” NH Female to 1 ½” NH Male			
4 – Reducer, 1 ½” NH Female to 1” NPSH Male			
1 – Reducer, 1” NPSH to ¾” Garden Hose			
1 – Adapter, 1 ½” NH Female to 1 ½” NPSH Male			
1 – Adapter, 1 ½” NPSH Female to 1 ½” NH Male			
1 – Mop-Up Wand, ¾” Receptor with ¾” Nozzle Tip			
5 – Inline Ball Valve, ¾” Garden Hose			
4 – Spanner Wrench, combination of 2 ea. 1” & 1 ½”			
1 – Fire Hose Clamp, Forestry			
1 ½” Hose (see table for min. quantity)			
1” Hose (see table for min. quantity)			
¾” Hose (see table for min. quantity)			
1 – 20’ Suction hose with strainer or screened foot valve			
1 – Live Hose Reel, min. of 100’ of 1” hose non-collapsible with ¾” inside diameter			
3 – Shovel, size “0”			
3 – Pulaski			
2 – Backpack Pump			
10 – Fusee (fire starter)			
3 – Mill Bastard File			
3 – Line Gear (Day Pack)			
2 – Programmable Radio, min. of 1 must be handheld with 2 additional batteries & 1 Programming Cable (Narrow Band Compliant)			
All inventory permanently etched or engraved with company information			

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<b>Personal Protective Equipment (for all personnel)</b>			
Fire Shelter	Nomex shirt/pants (2 sets)	Hearing Protection	Gloves
Hardhat	Boots	Eye Protection	Headlamp
<b>Pump Type (select one)</b>			Auxiliary
Actual Pump PSI:			PTO
<i>SELECT ONE:</i> Acceptable      Good      Excellent			
<u>Type 3 engines:</u> Pressure measured with a .716 diameter sharp edged orifice installed			
Acceptable    250 psi to 312 psi			
Good            313 psi to 374 psi			
Excellent      375 psi or more			
<u>Type 4, 5, 6 engines:</u> Pressure measured with a .520 diameter sharp edged orifice installed			
Acceptable    100 psi to 124			
Good            125 psi to 149 psi			
Excellent      150 psi or more			
Approved spark arrestor on all naturally aspirated auxiliary engines			
Draft from 10' vertical through suction hose with foot valve			
Pump and Roll capability			
Fuel to operate pump in DOT approved container for min. 12 hr. run time (if auxiliary)			
<b>Pump Accessories (If pump is powered by an Auxiliary Engine)</b>			<b>Yes</b>
1 – Wrench, Adjustable 10"			<b>No</b>
1 – Wrench, Spark Plug (Unless adjustable wrench is suitable)			
1 – Pliers (Slip Joint)			
1 – Screwdriver (Standard Blade)			
1 – Screwdriver (Phillips)			
1 – Spare Starter Rope (If Required)			
2 – Quarts Crankcase Oil			
1 – Grease Gun with Grease			
Spark Plugs (Sufficient number to replace all plugs on auxiliary pump)			
<b>Compressed Air Foam System (CAFS) - optional</b>			
Actual Compressor Rating (cubic feet per minute):			
<b>Foam Proportioner System (select one)</b>		Manually Regulated Proportioner	Automatic Regulating Proportioner
Amount of foam carried on engine (min. 5 gal.):			
<b>Additional Vehicle Safety Items (Minimum Requirements)</b>			<b>Yes</b>
Reflective Triangles, bi-directional, set of 3			<b>No</b>
1 – Fire Extinguisher, 2A 10BC or better			
1 – First Aid Kit (5 person)			
1 – Flashlight			
2 – Wheel chocks (see Definitions)			
Seat Belts for all Passengers			
Back up Alarm (87 decibels) & back up lights (2)			
Brakes on all axles			
Operator controlled auxiliary brake system on all vehicles 36,000 GVWR or greater			
Water tank firmly attached to frame or structurally sound flat bed			
Tank meets baffling requirements specified in D.2.1.2(f)			
1 ½" Discharge Valve, full flow with rapid shut off			
Tire load ratings in accordance with vehicle GVWR			
Tires minimum tread: 4/32" front (steering axle), 2/32" rear tires			
Full size spare tire and wheel that shall fit any position or a spare tire for front and rear axle, minimum 4/32" tread and securely mounted to the vehicle. The spare tire shall be easily accessible.			

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Last edit: 1/25/22

### CHAINSAW AND CHAINSAW KIT INSPECTION CHECKLIST

(Minimum Engine Power required is 3.0 cubic inch or 49cc)  
(Wildland Engines Only)

<b>Manufacturer:</b>	
<b>Model Number:</b>	
<b>Serial Number:</b>	

CHAINSAW:	YES	NO
No visible parts broken		
All visible nuts and bolts tight		
Oil in chain oil reservoir		
Proper exhaust system and spark arrester		
Guide bar is a minimum of 18 inches and not bent or damaged		
Pull rope functions properly		
Started and checked that the engine idles evenly, runs smoothly, has satisfactory power, and the on/off/kill switch works		
Chain brake works properly		
CHAINSAW KIT:		
1 Chainsaw Kit/Bag/Box to store Compliment		
1 Combination Bar/Spark Plug Wrench (Scrench)		
1 Spare Spark Plug to fit saw		
1 Pint of Spare Engine Oil (2-cycle oil)		
1 Pair of Chaps meeting USFS Specification 6170-4F or later, or certified to NFPA 1977		
1 Extra Chain to fit Saw-Bar Combo		
1 Chain File		
1 Felling Axe		
1 Felling Wedge		
1 OSHA or DOT Approved Fuel Container to hold Chainsaw Fuel and Bar Oil that is properly secured on the vehicle		
2 Sets Ear Plugs		

### WEIGHT / GALLON CALCULATION

All Engines shall be weighed fully loaded with water to ensure manufacturers GAWR and GVWR are not exceeded when fully loaded. This form may also be used to determine tank capacity in gallons by weighing the vehicle empty and full and dividing the difference by 8.33 lbs. to determine the tank capacity in gallons of water.

	Loaded Weight	Unloaded Weight
Manufacturer's GVWR		
Manufacturer's GAWR Front Axle		
Manufacturer's GAWR Rear Axle – 1 <sup>st</sup> Axle Tandem		
Manufacturer's GAWR Rear Axle – 2 <sup>nd</sup> Axle Tandem		
Manufacturer's GAWR Lift Axle ( <i>if applicable</i> )		
Add 250 lbs. per person to loaded weight: (All engines require 3 personnel)		
Total Loaded Weight		
Total Unloaded Weight		
<b>Loaded Weight <i>minus</i> Unloaded Weight</b>		
<b>Loaded Weight <i>minus</i> Unloaded Weight ÷ 8.33 lbs. = gallons capacity</b>		

