### MACHINE PERMISSIBILITY CHECKLIST

Make and Model No: DST7.5FP
Engine: FPT N45, Approval: 07-EPA140003
Machine Serial Number:
MSHA Approval Number:
Date of Examination:
Machine Type: SCOOP
Examination Conducted By:

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If an MSHA Part 36 approval plate has been affixed to this machine, it must meet the requirements of Part 36, Title 30, Code of Federal Regulations. It is the responsibility of the mine operator to ensure that this machine is maintained in permissible condition in accordance with this checklist.

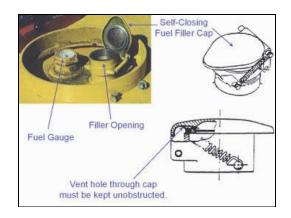
- For a complete permissibility evaluation, this checklist must be used in conjunction with a Power System Checklist, M354-001-01, and Electrical System Checklist, M261-008-01.
- Due to Braking Capability Limitations, this machine shall not be operated on grades greater than 30%.
- For the 5<sup>th</sup> wheel attachment, the grade and unbraked trailer loads (trailer plus load) are:
   0% grade 40,000 lbs, 10% grade 20,000 lbs, 20% grade 10,500 lbs.
   If the vehicle is hitched to a trailer on a grade greater than 20%, the trailer must be equipped with brakes.
  - If the vehicle is hitched to a trailer with brakes, the mine must submit a request for a MSHA Part 36 field modification.
- The approval plate specifies a ventilation rate of 5500 CFM for Part 7 engine approval no. 07-EPA140003.

The component and function checks in this document that are designated as "WEEKLY" must be performed during each weekly examination in accordance with 30 CFR, Section 75.1914.

#### ALL INSPECTIONS AND TESTS SHALL BE PERFORMED IN FRESH AIR.

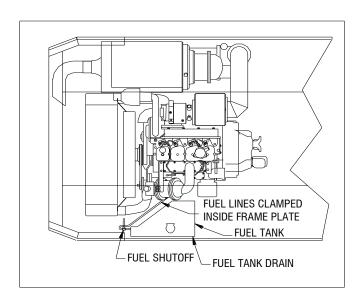
#### A. <u>Fuel System</u>

	in a manner which will prevent loss during refueling.					
Weekly	3.	[ ]	The fuel filler cap is self-closing and is attached to the tank			
Weekly	2.	[ ]	The fuel filler cap is vented and the vent is not plugged.			
Weekly	1.	[ ]	There are no fuel leaks.			



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Weekly	4. vehicle		]	Auxiliary fuel tank capacity has not been added to the
Weekly	5.	[	]	Fuel filters are properly installed and are not damaged.
Weekly	6.	[	]	The fuel shutoff valve in the fuel supply line is operable.
Weekly	7.	[	]	The drain plug in the fuel tank is locked in position.
Weekly	8. synthet	[ tic e	] elasto	Fuel lines are either steel-wire reinforced, fire-resistant mer-covered hose suitable for use with diesel fuel, or metal.
Weekly	9. compo	[ nen	] ts and	Fuel lines are not routed near or connected to hot exhaust are protected from external damage.
Weekly	10.	[	]	Fuel lines are secured.



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#### B. **Braking System**

**Warning** Brake tests are to be conducted on a relatively level surface, away from traffic areas where other machines or persons may be moving about. Consider the possible consequences of testing a machine with braking inadequacies, and select an area where the test machine would not cause an accident due to these inadequacies.

NOTE: These tests must ensure service and parking brake capability equal to or greater than the maximum specified gradeability of the machine.

Weekly 1. [ ] Service Brake Test.

- a. With the engine operating and the machine stationary, apply the service brake.
- b. Release all other brakes.
- c. Place the transmission gear selector in second gear and the directional control selector in forward or reverse.
- d. Depress the accelerator to full throttle, allowing the engine to put the transmission torque converter into a stall condition.

If the service brake is operating satisfactorily, the unit will not move when the above procedure is followed. If movement is detected, the service brake must be repaired.

Weekly 2. [ ] Parking Brake Test.

- a. With the engine operating and the machine stationary, apply the parking brake.
- b. Release all other brakes.
- c. Place the transmission gear selector in second gear and the directional control selector in forward or reverse.
- d. Depress the transmission declutch valve and hold during the test.
- e. Depress the accelerator to full throttle, allowing the engine to put the transmission torque converter into a stall condition.

If the parking brake is operating satisfactorily, the unit will not move when the above procedure is followed. If movement is detected, the parking brake must be repaired.

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Weekly	3. Engage	[ ] Five (5) Second Automatic Supplemental/Parking Brake ment Test.
	a. b. c. d.	Start the engine.  Place the supplemental/parking brake control valve in the release position.  Locate and watch the pressure gauge in the operator's compartment. The system release pressure should be a minimum of 300 psi.  Shutdown the engine and note the time until the release pressure displayed on the gauge drops to zero psi. If longer than five (5) seconds, the system needs to be repaired and retested until the five (5) second brake engagement time is achieved.
Weekly	4.	[ ] One (1) Second Supplemental/Parking Brake Engagement test.
	a. b. c.	Start the engine.  Place the supplemental/parking control valve in the release position.  Locate and watch the pressure gauge in the operator's compartment. The system release pressure should be a minimum of 300 psi.  Manually place the brake control valve in the applied position and note the time until the release pressure displayed on the gauge drops to zero psi. If longer than one second the system needs repaired and retested until the one second brake engagement time is achieved. [Note: A stopwatch can be used or the operator can count to one thousand one to check if the engagement time exceeds one second].
<u>Miscellaneous</u>		
Weekly	_	[ ] The vehicle is equipped with at least one dry chemical fire isher with a minimum of a 10A:60B:C NFPA rating. All fire ishers are fully charged.
		[ ] The fire suppression system is tested and maintained in ance with its manufacturer's recommended inspection and nance program

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Weekly	*3. [ ] The fire suppression system is operable as determined by the following checks:							
	<ul> <li>a. Note general appearance of system components for mechanical damage or corrosion.</li> <li>b. Check hose fittings and and nozzles for mechanical damage and cuts.</li> <li>c. Nozzles are protected against the entrance of foreign materials such as mud, coal dust or rockdust. Check nozzle openings; slot on nozzles should be closed with silicone grease or covered with a plastic blow off cap.</li> <li>d. The lead or wire seals are installed on all manual actuators. (If missing, refer to fire suppression system manufacturer's inspection manual for inspecting actuator gas cartridges.)</li> </ul>							
Weekly	4. [ ] The machine has a legible MSHA Part 36 approval plate attached to it in the operator's compartment.							
Weekly	5. [ ] The machine is equipped with a neutral start and it is functioning properly. The engine will not start when the transmission selector is in the forward or reverse position.							
Weekly	6. [ ] If equipped with a man basket; (1) a stop valve is in the man basket and it is functioning properly, (2) a diverter valve is in the operator's compartment that prevents machine movement when the man basket is in the raised position and it is functioning properly.							
Weekly	7. [ ] If equipped with a trencher or an auger; the operating control will return to neutral when released.							

<sup>\*</sup>Fire suppression is optional for machines operating in metal/nonmetal mines.