

DRY SYSTEMS TECHNOLOGIES®

MACHINE PERMISSIBILITY CHECKLIST

Make and Model No: DST1245

Engine: FPT N45, Approval: 07-EPA140003

Machine Serial Number: _____

MSHA Approval Number: _____

Date of Examination: _____

Machine Type: _____ Forklift _____

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.

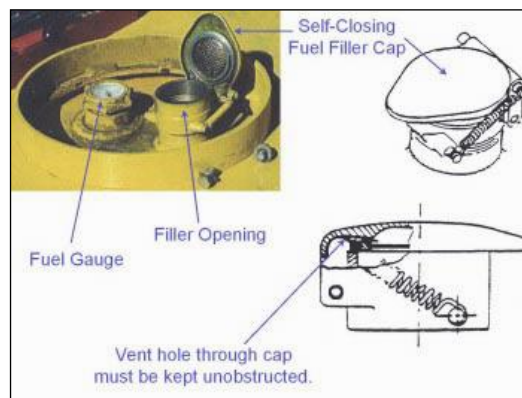
- For a complete permissibility evaluation, this checklist must be used in conjunction with a Power System Checklist, M354-001-01, and Electrical System Checklist, M261-008-01.
- Due to Braking Capability Limitations, this machine shall not be operated on grades greater than 15%, 30% if equipped with the optional driveline park brake.
- 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. Fuel System

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

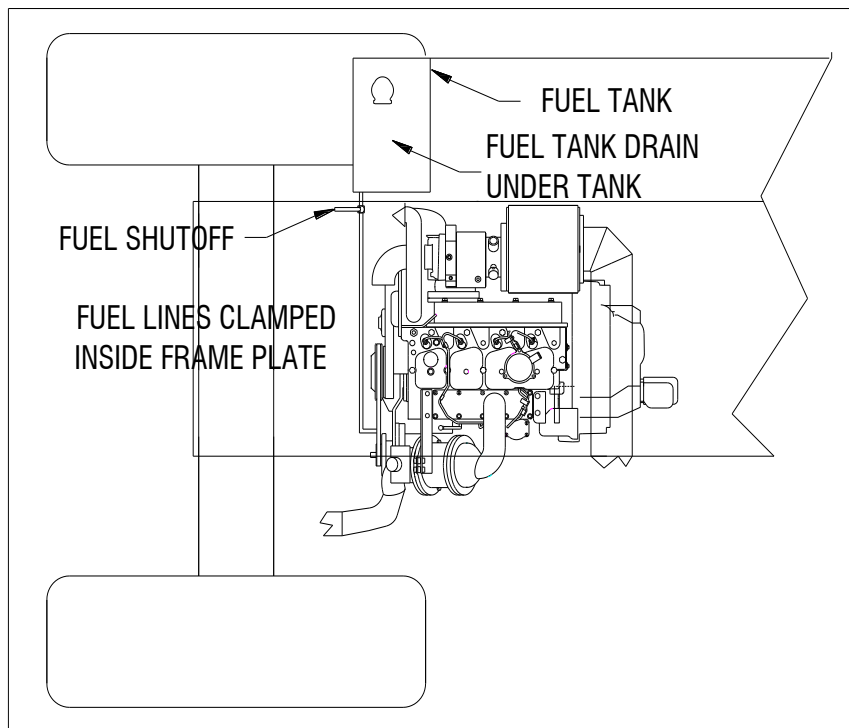


- Weekly 4. Auxiliary fuel tank capacity has not been added to the vehicle.
- Weekly 5. Fuel filters are properly installed and are not damaged.

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- 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. [] Fuel lines are either steel-wire reinforced, fire-resistant synthetic elastomer-covered hose suitable for use with diesel fuel, or metal.
- Weekly 9. [] Fuel lines are not routed near or connected to hot exhaust components and are protected from external damage.
- Weekly 10. [] Fuel lines are secured.



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. Pull the transmission declutch valve lever and hold during the test.
 - e. Depress the accelerator to 1500 RPM
 - f. If the machine is equipped with the optional driveline park brake, then 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. Five (5) Second Automatic Supplemental/Parking Brake Engagement Test.
- 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 280 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.
- 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 280 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].

Miscellaneous

- Weekly
1. The vehicle is equipped with at least one dry chemical fire extinguisher with a minimum of a 10A:60B:C NFPA rating. All fire extinguishers are fully charged.
- *2. The fire suppression system is tested and maintained in accordance with its manufacturer's recommended inspection and maintenance program.

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- Weekly *3. The fire suppression system is operable as determined by the following checks:
- a. Note general appearance of system components for mechanical damage or corrosion.
 - b. Check hose fittings and nozzles for mechanical damage and cuts.
 - 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 covered with a plastic blow off cap.
 - 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.)
- 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 park brake and a transmission interlock and they are functioning properly. The engine will not start unless the park brake and the transmission interlock are applied.
- Weekly 6. A warning tag specifying a maximum allowable exhaust backpressure of (40) inches of water is installed next to the exhaust filter service indicator gauge.
- Weekly 7. A warning tag specifying a maximum allowable intake restriction of (18) inches of water is installed next to the intake filter service indicator gauge.

*Fire suppression is optional for machines operating in metal/nonmetal mines.