

DRY SYSTEMS TECHNOLOGIES®

MACHINE PERMISSIBILITY CHECKLIST

Make and model No: DST320

Engine: Cummins C8.3, Approval: 07-EPA040001, 07-EPA120001,
07-EPA140001, 07-EPA140002

Machine Serial Number: _____

MSHA Approval Number: _____

Date of Examination: _____

Machine Type: Excavator _____

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.

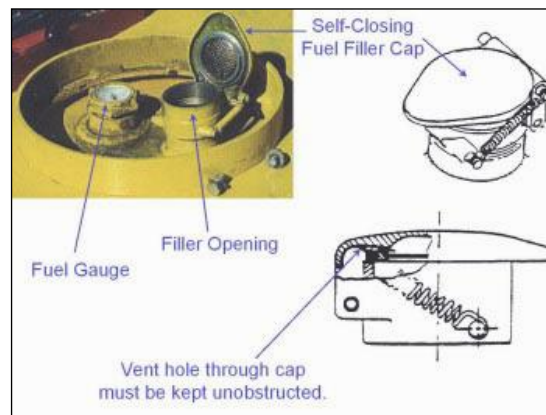
- For a complete permissibility evaluation, this checklist must be used in conjunction with a Power System Checklist, M255-001-01, and Electrical System Checklist, M261-008-01.
- Due to Braking Capability Limitations, this machine shall not be operated on grades greater than 20%.
- The approval plate specifies a ventilation rate of 13500 CFM for Part 7 engine approval nos. 07-EPA040001 or 07-EPA120001. 10,000 CFM for Part 7 engine approval no. 07-EPA140001. 9,000 CFM for Part 7 engine approval no. 07-EPA140002.

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.

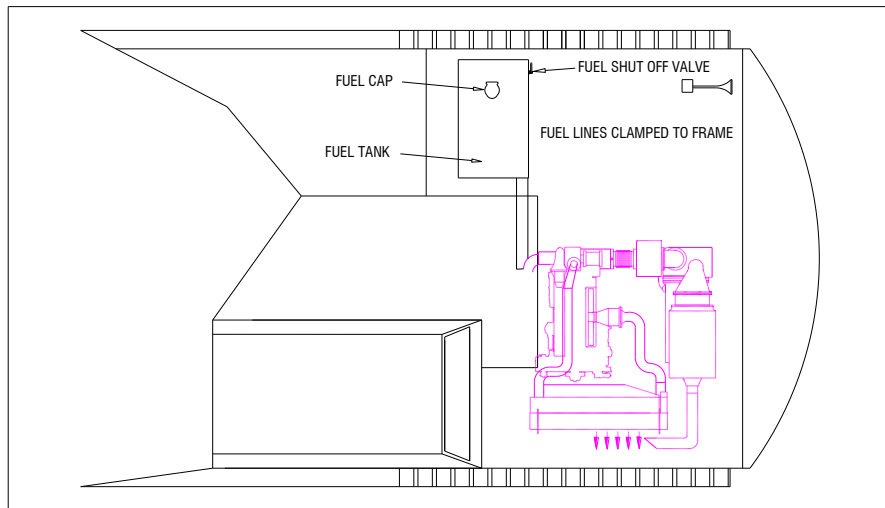


- Weekly 4. Auxiliary fuel tank capacity has not been added to the vehicle.
- Weekly 5. Fuel filters are properly installed and are not damaged.

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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. 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.
- Weekly *3. The fire suppression system is operable as determined by the following checks:

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- 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 closed with silicone grease or 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 neutral start and it is functioning properly. There is no tendency for the vehicle to move or take up driveline slack when the engine is started with the tram valve joystick in the forward or reverse position and the hydraulic activation lever is not lowered. |
| Weekly | 6. [] The swing brake gauge is functioning. It reads zero pressure if the cab is not being rotated. |
| Weekly | 7. [] The forward tram gauge is functioning. It reads zero pressure when the forward control returns to neutral. |
| Monthly | 8. [] Travel brake check: Place the machine on a slope of 12 degrees. The surface of the slope must be hard and smooth. The bucket should be empty. Stop the engine. Measure the machine movement on the slope after 3 minutes. The machine movement should be 0 inches. |

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