

## The Effect of Fuel Selection on the Interval for Cleaning the Nozzle for the Aftertreatment Regeneration Device (ARD Nozzle)

Using a blend of biodiesel and ultralow sulfur diesel (ULSD) shortens the intervals between cleanings of the ARD nozzle.

Refer to this Operation and Maintenance Manual, "Refill Capacities and Recommendations" or to this Operation and Maintenance Manual, "Fluid Recommendations" for information about the types of fuels that may be used in this Cat On-highway Engine.

Use the following table to determine the correct interval for cleaning the ARD nozzle.

Table 1

Intervals for Cleaning the ARD Nozzle (1)

Engine	Biodiesel Blend (2)	ULSD
C7 Engine with a Shallow Sump	PM1: Every 17700 km (11000 miles) or 4150 L (1100 US gal) of fuel or 250 service hours or 6 months	Every 80500 km (50000 miles) or 1500 service hours
C7 Engine with a Deep Sump	PM1: Every 24000 km (15000 miles) or 5700 L (1500 US gal) of fuel or 400 service hours or 6 months	Every 80500 km (50000 miles) or 1500 service hours
C9 Engine	Every 24000 km (15000 miles) or 7500 L (2000 US gal) of fuel or 400 service hours or 6 months	Every 80500 km (50000 miles) or 1500 service hours

( 1 ) Use the interval that occurs first.

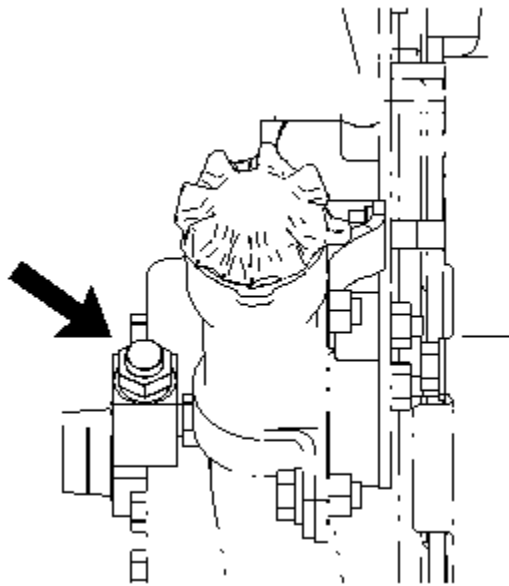
( 2 ) An acceptable biodiesel blend must consist of at least 95 percent ULSD and 5 percent or less of an acceptable biodiesel.

## Procedure for Cleaning the ARD Nozzle

The liquid cleaner that is used to clean the nozzle for the Aftertreatment Regeneration Device (ARD) is available at your Cat dealer. The cleaner is already measured into a dispenser. Contact your authorized Cat dealer for the current part number for the filled bottle.

Turn off the engine.

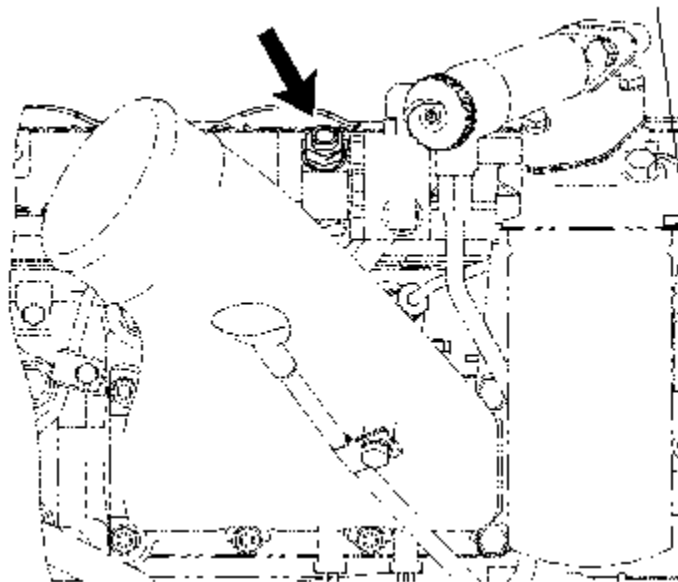
Use an allen wrench in order to remove the access plug from the cleaning port. Inspect the access plug for damage. An undamaged plug may be reused.



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Illustration 1

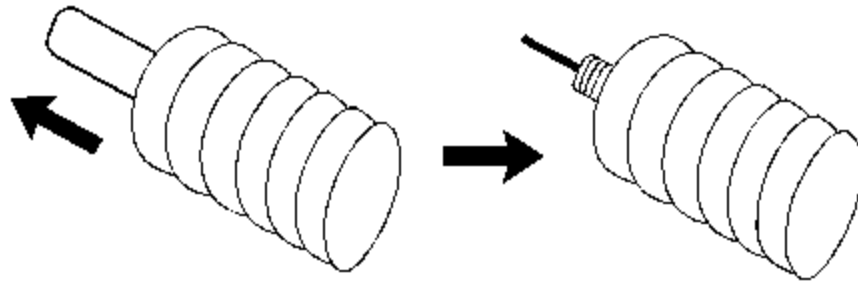
The cleaning port is located on the left side of the engine next to the oil filler tube on the C7 Engine.



## Illustration 2

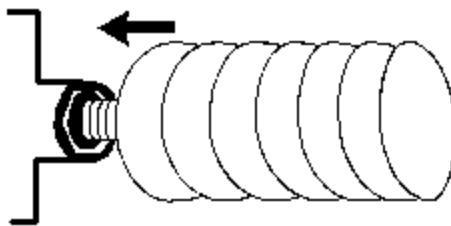
The cleaning port is located on the left side of the engine to the left of the fuel filter on the C9 Engine. The priming pump that is shown is optional.

**Note:** Remove the red cap from the dispenser immediately before use. Ensure that no debris is present on the dispenser. Make sure that the cleaning port is free of debris.



## Illustration 3

Insert the tip of the dispenser completely into the cleaning port.



## Illustration 4

Squeeze the container in order to dispense the fluid. All of the fluid should be dispensed before the dispenser is removed from the cleaning port. Remove the dispenser and ensure that all of the liquid was dispensed. Inspect the cleaning port in order to ensure that no part of the dispenser remains in the cleaning port.

Insert an undamaged access plug into the cleaning port. Torque the plug to  $10 \pm 1 \text{ N}\cdot\text{m}$  ( $7.4 \pm 0.7 \text{ lb ft}$ ). Start the engine and run the engine for at least 5 minutes at low idle.