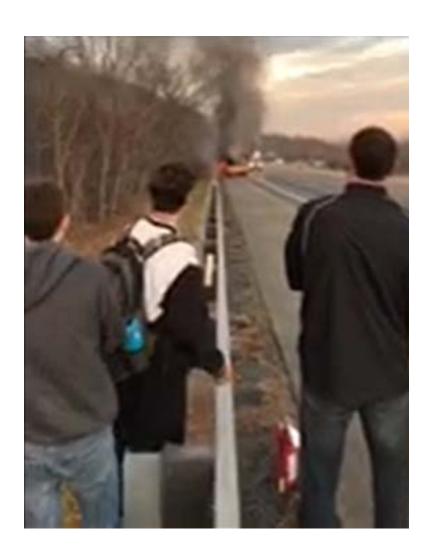
Albemarle County Public Schools

Bus Fire

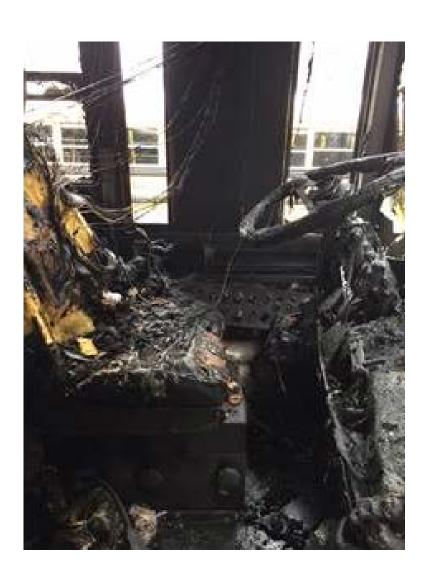
January 13, 2017

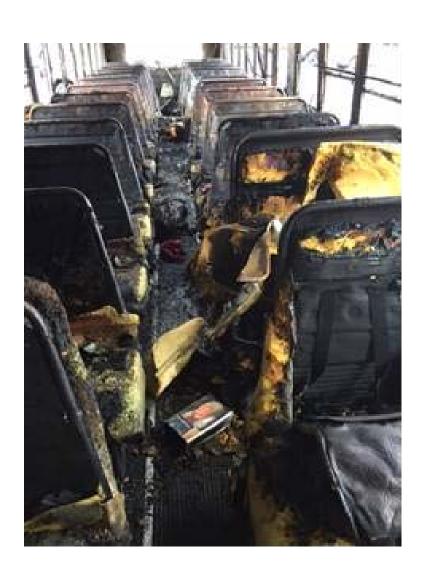
Overview

- On January 13, 2017 a D-type bus was transporting the Monticello High School swim team (23 students and 3 coaches) to Bridgewater College for a swim meet when the bus caught on fire
- All passengers and the driver evacuated safely on I-64
- No injuries were reported
- The bus was a total loss









Background

- Nationally, about one school bus fire per day (379/year)
- Very few injuries on bus, more likely on secondary vehicles
- Bus was a 2005 model year D-type bus
- ▶ 131,347 miles
- Mercedes engine recall in 2009 for fuel line leaks
- Recall work not done at our shop nor at vendor's shop
- Average about one fuel leak in 220-bus fleet per month
- Repaired fuel leak on bus 5 months prior to incident
- PM performed on bus nine days before incident

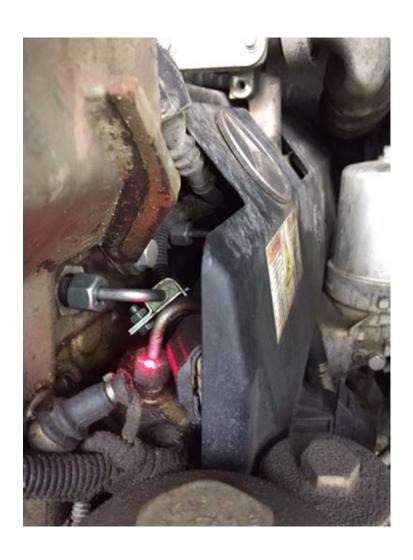
Event

- Same driver drove bus on a field trip from 8:20 AM to 12:20 PM
- Data indicates a complete pre-trip inspection was done
- Returned at 3:00 PM, did abbreviated pre-trip inspection (including checking engine), found burned-out bulb, had bulb replaced at shop, started trip
- Travelled west on a gradual upgrade
- ► ECM limited speed to 60 MPH four times
- Students observed flames/smoke out rear window, alerted driver

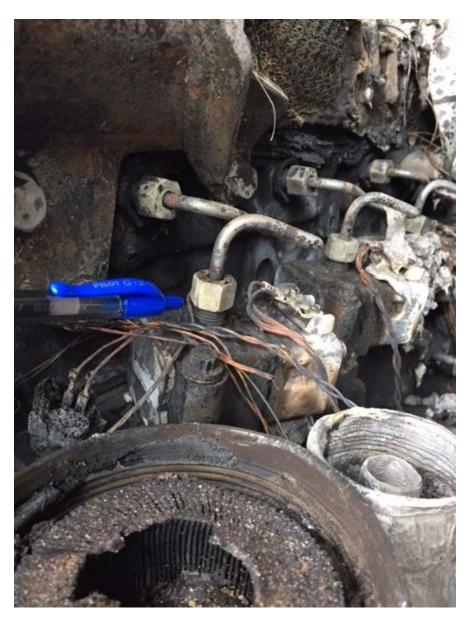
Investigation

- County Fire Marshalls arrived the next morning and determined that the cause was a diesel leak due to a loose hex nut
- Insurance company and OEM each contracted forensic accident investigation engineering companies
- Each determined separately that the fire started at the door-side rear outside tire

Before



After





Door Side Rear Wheels

Preventative Measures

- 1. On SPED and Activity buses, tire pressure sensors and engine compartment heat sensors will be installed. Both will alarm driver
- 2. Working with VDOE to standardize recall procedure
- 3. Will work with schools to enhance evacuation drill procedures
 - a) Increase frequency
 - b) SPED
 - c) Midday to capture all students
 - d) Presentation