

Ministry of the Environment, Conservation and Parks

Integrated Vehicle Emissions and Safety Inspection Program

Heavy-Duty Diesel Vehicle Inspection
and Maintenance Working Group

November 21, 2019

Heavy-Duty Vehicle Inspection and Maintenance Program History

Characteristics of Program

- Began in 1999
- Decentralized stationary and mobile testing facilities
- HDV IM program applied to RGW greater than 10,000 lbs /4,500 kg
- LDV and HDV IM programs ran concurrently
- Enforced via annual registration denial
- First six model years are exempt
- SAE J1667 inspections with current cutpoints:
 - Model year 1990 and older - 40% opacity
 - Model year 1991 and newer - 30% opacity

HDV IM Program History

Program Improvements Made

- **April 1, 2005** - Biennial testing incentive for HD diesel trucks with 20% or lower opacity
- **January 1, 2013** - Added OBD advisory tests (SAE J1979) for 2007 and newer medium duty trucks GVWR 8,500 lbs to 14,000 lbs (3,865 kg to 6,350 kg)
- **December 18, 2018** – Clarification that all on-road enforcement rules also apply to out-of-province vehicles
- **April 1, 2019** - Diesel only HDV IM program (over RGW 10,000 lbs / 4,500 kg)

Re-designed Program

Proposed Program Updates (for January 1, 2020)

- Environmental Regulatory Notice:
 - Lowering SAE J1667 cut-point for 2008 and newer trucks to 20% opacity
 - OBD pass/fail inspection for Medium Duty Trucks (SAE J1979) registered 10,000 lbs to 14,000 lbs (4,500 kgs to 6,350 kgs) (July 2020)
 - Allowing 3 monitors not ready
 - Increased focus on tampering during inspections and through on-road enforcement
 - Tightening visible emission prohibition
 - Eliminating exemptions for diesel hybrids vehicles

Re-designed Program

Future Program Proposals (for July 1, 2021)

- Back to annual testing requirement, no biennial exemptions for 20% opacity
- Adding OBD-only inspection for 2016 and newer HD diesel trucks (SAE J1939) GVWR > 14,000 lbs (6,350 kgs)
- Integrating HD diesel emissions inspection with HD safety inspection from a single workstation (e.g., Massachusetts)
- No HDDV model year exemptions
- First inspection at initial truck registration (year zero)

Re-designed Program

Next Steps

- June 30, 2021 current vendor contract expires
- Procurement for new HDDV emissions and safety inspection program
- Look at strategies outside of emissions testing to address emissions from older diesel vehicles
- Develop emissions benefit reporting methodology

Questions?