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***Course 521.9 - Diesel Truck \u0026 Bus
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**Nonroad Evaporative Emission Rates,
NR-012d (PDF) (147 pp, 2.7 MB,
EPA-420-R-10-021, July 2010)**

**Nonroad Technical Reports | US EPA
New evaporative emission rates,
including diurnal, hot soak, tank and
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emissions. Support of Small SI Engine
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***United States EPA-420-R-10-021
Environmental Protection NR-012d
Agency July 2010 ----- Nonroad
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NR-012d July 2010 Assessment and
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This report documents the basic
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2014) Exhaust Emission Rates for Heavy-
Duty On-road Vehicles in MOVES2014
(PDF) (231 pp, 2.23MB,
EPA-420-R-15-015a, November 2015)***

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NONROAD EVAPORATIVE EMISSIONS

**RATES (NR-012C) Description: Support of
Small SI Engine Rule and MSAT Rule.**

Contact: Greg Janssen (734) 214-4285

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**NONROAD EVAPORATIVE EMISSIONS
RATES (NR-012C) | Science ...**

Using the NEVES data, the. -----

**NONROAD model assumes the crankcase
HC emission factor is equal to 33% of the
exhaust HC emission factor for 4-stroke
engines with open crankcases. For diesel
engines with open crankcases, NONROAD
assumes the HC emission factor is equal
to 2.0% of the exhaust HC emission
factor.**

**Basic Evaporative Emission Rates For
Nonroad Engine Modeling**

**Due to the scarcity of nonroad engine
crankcase emission test data, NEVES
uses data from on-highway engines to
estimate nonroad crankcase emission
rates. Using the NEVES data, the**

NONROAD model assumes the crankcase HC emission factor is equal to 33% of the exhaust HC emission factor for 4-stroke engines with open crankcases. For diesel engines with open crankcases, NONROAD assumes the HC emission factor is equal to 2.0% of the exhaust HC emission factor.

Basic Evaporative Emission Rates for Nonroad Engine Modeling

This guide contains tables listing federal emission standards for on-road and nonroad vehicles and engines, and related fuel sulfur standards. Each table includes the standards, useful life, warranty period, and the availability of averaging, banking, and trading (ABT).

Emission Standards Reference Guide | US EPA

Technical Standards. The Tier 1 final rule was published on June 5, 1991, and phased-in progressively between 1994 and 1997. Tier 1 was in effect until 1999 for passenger vehicles and LLDT, and until 2004 for heavy light-duty trucks (HLDT). Tier 1 also regulates evaporative emissions; these requirements are

**summarized on the EPA's website.
Vehicle Categories Tier 1 standards
applied to all ...**

**US: Light-duty: Emissions | Transport
Policy**

**Additional EPA reports will describe
other issues relating to emission factors
including NONROAD emission factors for
evaporative emissions, crankcase
emissions, spillage and other non-
exhaust emissions (NR-012),
adjustments to emission rates due to
variations in fuel and temperature
(NR-001), speciation of hydrocarbon
emissions (NR-002), and adjustments to
emission rates as equipment ...**

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NONROAD model assumes the crankcase**

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US: Light-duty: Emissions | Transport Policy

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***(NR-001), speciation of hydrocarbon
emissions (NR-002), and adjustments to
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