§ 86.346-79

(l) For gasoline-fueled engines, calculate the brake-specific emissions and fuel consumption for the complete test as follows:

 $BSHC(T) = 0.35 \ BSHC(1) = 0.65 \ BSHC(2)$

 $BSCO(T) = 0.35 \ BSCO(1) = 0.65 \ BSCO(2)$

 $BSNO_x(T) = 0.35$ $BSNO_x(1) = 0.65$ $BSNO_x(2)$

 $WBSFC(T) = 0.35 \quad WBSFC(1) = 0.65$ WBSFC(2)

\$86.346-79 Alternative NO $_{\rm X}$ measurement technique.

- (a) Oxides of nitrogen (NO_X) may be measured with the following "alternative instrumentation" for both Diesel and gasoline-fueled engines. The "alternative instrumentation" shall consist of:
- (1) A heated sample line maintained above the dew point:
- (2) An NO_2 to NO converter obtaining a sample directly from the heated sample line; and
- (3) A combination per 40 CFR 86.777 or 40 CFR 86.977, whichever is applicable of a water trap, dryer, flow controls, and an NO NDIR analyzer obtaining a sample from the converter.
- (b) The provisions of 40 CFR 86 subpart D shall apply to the "alternative instrumentation", where applicable, with the following exceptions:
- (1) Analyzer specifications found in §§ 86.315, 86.321, and 86.322 do not apply to the "alternative instrumentation".
- (2) For the purposes of this section, the full-scale value specified in $\S 86.338$ (a)(1) shall be 1,500 ppm for Diesel engines and 2,500 ppm for gasoline-fueled engines.
- (c) The "alternative instrumentation" shall be calibrated per §86.330.
- (d) The NO NDIR analyzer shall meet the performance and interference specifications contained in 40 CFR 86.777 or 40 CFR 86.977, whichever is applicable.
- (e) The operation of the dryer shall follow good engineering practice such that the test results are not altered. Proper preconditioning of the dryer is allowed.

§ 86.347-79 Alternative calculations for diesel engines.

(a) This section applies to Diesel engines only. Gasoline-fueled engines must use the calculations in §86.345.

- (b) For Diesel engines, the calculations specified in 40 CFR 86.977-15 may be substituted for §86.345.
- (c) The modal *BSFC* and weighted *BSFC* shall be calculated per §86.345.
- (d) If the provisions of this section are used, a CO_2 measurement is not required.
- (e) Both 40 CFR 86.977–15(a) and $\S 86.313$ shall apply to air-flow measurements. For the purposes of this section, the air-flow measurement accuracy specified in $\S 86.313$ shall be ± 1 percent.

§ 86.348-79 Alternative to fuel H/C analysis.

- (a) Fuel H/C analysis need not be performed if the following average H/C ratios are used for all calculations.
 - (1) #1B1 Diesel: 1:93
 - (2) #1B2 Diesel: 1:80
 - (3) Gasoline: 1.85
 - (b) [Reserved]

[46 FR 50496, Oct. 13, 1981, and 47 FR 49807, Nov. 2, 1982]

Subpart E—Emission Regulations for 1978 and Later New Motorcycles, General Provisions

SOURCE: 42 FR 1126, Jan. 5, 1977, unless otherwise noted.

§86.401-90 General applicability.

- (a) This subpart applies to 1978 and later model year, new, gasoline-fueled motorcycles built after December 31, 1977, and to 1990 and later model year, new, methanol-fueled motorcycles built after December 31, 1989.
- (b) Motorcycles with engine displacements less than 50 cc (3.1 cu in) are excluded from the requirements of this subpart.
- (c) Motorcycles are excluded from the requirements of this subpart, if with an 80 kg (176 lb) driver, it cannot:
- (1) Start from a dead stop using only the engine, or
- (2) Exceed a maximum speed of 40 km/h (25 mph) on level paved surfaces. [54 FR 14539, Apr. 11, 1989]

§86.401-2006 General applicability.

This subpart applies to 1978 and later model year, new, gasoline-fueled motorcycles built after December 31, 1977, and to 1990 and later model year, new