

## FINAL REGULATION ORDER

Note: The new language is shown in underline, and the deletions are shown in ~~strikeout~~.

The symbol \* \* \* \* \* means that the remainder of the text in the section is not shown in this document and has not been amended.

Amend Title 13, California Code of Regulations, section 2281(c) to read as follows:

### **§2281. Sulfur Content of Diesel Fuel.**

#### **(a) *Regulatory Standard.***

\* \* \* \* \*

#### **(c) *Test Method.***

The sulfur content of diesel fuel limitation specified in subsection (a)(1) shall be determined by ASTM Test Method D 2622-82~~94~~94, which is incorporated herein by reference, or any other test method determined by the executive officer to give equivalent results.

\* \* \* \* \*

NOTE: Authority cited: Health and Safety Code Sections 39600, 39601, 43013, 43018, and 43101, and Western Oil and Gas Ass'n. v. Orange County Air Pollution Control District, 14 Cal.3d 411, 121 Cal.Rptr. 249 (1975). References: Health and Safety Code Sections 39000, 39001, 39002, 39003, 39500, 39515, 39516, 41511, 43000, 43016, 43018, and 43101, and Western Oil and Gas Ass'n. v. Orange County Air Pollution Control District, 14 Cal.3d 411, 121 Cal.Rptr. 249 (1975).

Amend Title 13, California Code of Regulations, section 2282 to read as follows:

**§2282. Aromatic Hydrocarbon Content of Diesel Fuel**

\* \* \* \* \*

**(b) Definitions.**

\* \* \* \* \*

(0.5) "Aromatic hydrocarbon" has the same meaning as "total aromatic hydrocarbons."

\* \* \* \* \*

~~(14) "Polycyclic aromatic" means the sum of the concentrations of the compound types defined in paragraphs 3.8 through 3.12 of ASTM D 2425-83, which is incorporated herein by reference.~~ (also referred to as "polynuclear aromatic hydrocarbons") means an organic compound containing two or more aromatic rings.

\* \* \* \* \*

**(c) Test Method.**

~~(1) Compliance with The the aromatic hydrocarbon content limitations specified in subsection (a) this section 2282 shall be determined by ASTM D-1319-84 5186-96, which is incorporated herein by reference modified as set forth in Subsection (e)(2). The following correlation equation shall be used to convert the SFC results in mass percent to volume percent:~~

Correlation Equation: Aromatic Hydrocarbons expressed in % by volume =  
0.916x (Aromatic Hydrocarbons expressed in % by weight) + 1.33

~~(2) For the purposes of this Section 2282, the text of Section 1.1 of ASTM Method D 1319-84 shall be modified to read: "1.1 This test method covers the determination of hydrocarbon types over the concentration ranges from 5 to 99 volume % aromatics, 0.3 to 55 volume % olefins, and 1 to 95 volume % saturates in No. 1-D and No. 2-D diesel fuel."~~

\* \* \* \* \*

**(g) Certified Diesel Fuel Formulations Resulting in Equivalent Emissions Reductions.**

\* \* \* \* \*

(2) The applicant shall supply the candidate fuel to be used in the comparative testing pursuant to Subsection (g)(4). The candidate fuel shall meet the specifications for No. 1-D or 2-D diesel fuel set forth in ASTM D975-81, which is incorporated herein by reference. The following characteristics of the candidate fuel shall be determined as the average of three tests conducted in accordance with the referenced test method (the ASTM methods are incorporated herein by reference):

- (A) Sulfur content (not to exceed 500 ppm) by ASTM D2622-~~82~~94;
- (B) Total aromatic hydrocarbon content, by ASTM D~~1319-84~~5186-96;
- (C) Polycyclic aromatic hydrocarbon content, by ASTM D~~2425-83~~5186-96;
- (D) Nitrogen content, by ASTM D4629-~~86~~96;

\* \* \* \* \*

(3) The reference fuel used in the comparative testing described in Subsection (g)(4) shall be produced from straight-run California diesel fuel by a hydrodearomatization process and shall have the characteristics set forth below under "General Reference Fuel Specifications" (the listed ASTM methods are incorporated herein by reference):

Reference Fuel Specifications

<u>Property</u>	<u>ASTM Test Method</u>	<u>General Reference Fuel Specifications</u>	<u>Small Refiner Reference Fuel Specifications</u>
Sulfur Content	D2622-82 <u>94</u>	500 ppm max	500 ppm max
Aromatic Hydrocarbon Content, vol %	D1319-84- <u>5186-96</u>	10 % max	20 % max
Polycyclic Aromatic Hydrocarbon Content, Wt%	D2425-83 <u>5186-96</u>	1.4% max	4% max
Nitrogen Content	D4629-86 <u>96</u>	10 ppm max	90 ppm max
Natural Cetane Number	D613-84	48 minimum	47 minimum
Gravity, API	D287-82	33 - 39	33 - 39
Viscosity at 40°F, cSt	D445-83	2.0 - 4.1	2.0 - 4.1
Flash point, °F, (min)	D93-80	130	130
Distillation, °F	D86-82 <u>96</u>		
IBP		340 - 420	340 - 420
10 % REC		400 - 490	400 - 490
50 % REC		470 - 560	470 - 560
90 % REC		550 - 610	550 - 610
EP		580 - 660	580 - 660

\* \* \* \* \*

NOTE: Authority cited: Health and Safety Code Sections 39600, 39601, 43013, 43018, and 43101, and Western Oil and Gas Ass'n. v. Orange County Air Pollution Control District, 14 Cal.3d 411, 121 Cal.Rptr. 249 (1975). References: Health and Safety Code Sections 39000, 39001, 39002, 39003, 39500, 39515, 39516, 41511, 43000, 43016, 43018, and 43101, and Western Oil and Gas Ass'n. v. Orange County Air Pollution Control District, 14 Cal.3d 411, 121 Cal.Rptr. 249 (1975).

Amend Title 13, California Code of Regulations, section 1956.8(b) to read as follows:

**§ 1956.8 Exhaust Emissions Standards and Test Procedures - 1985 and Subsequent Model Heavy-duty Engines and Vehicles.**

\* \* \* \* \*

(b) The test procedures for determining compliance with standards applicable to 1985 and subsequent heavy-duty diesel engines and vehicles are set forth in the "California Exhaust Emission Standards and Test Procedures for 1985 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" adopted April 8, 1985, as last amended ~~June 29, 1995~~ June 4, 1997, which is incorporated herein by reference.

\* \* \* \* \*

NOTE: Authority cited: Sections 39600, 39601, 43013, 43018, 43101, 43103, 43104, and 43806, Health and Safety Code; and Section 28114, Vehicle Code. Reference: Sections 39002, 39003, 43000, 43013, 43018, 43100, 43101, 43101.5, 43102, 43103, 43104, 43106, 43204, and 43806, Health and Safety Code.

Amend Title 13, California Code of Regulations, section 1960.1(k) to read as follows:

**§ 1960.1 Exhaust Emissions Standards and Test Procedures - 1981 and Subsequent Model Passenger Cars, Light-Duty, and Medium-Duty Vehicles.**

\* \* \* \* \*

(k) The test procedures for determining compliance with these standards are set forth in "California Exhaust Emission Standards and Test Procedures for 1981 through 1987 Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles," adopted by the state board on November 23, 1976, as last amended May 20, 1987, and in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles," adopted by the state board on May 20, 1987, as last amended ~~July 24, 1996~~ June 4, 1997, both of which are incorporated herein by reference.

\* \* \* \* \*

NOTE: Authority cited: Sections 39600, 39601, 43013, 43018, 43101, and 43104, Health and Safety Code. Reference: Sections 39002, 39003, 39667, 43000, 43009.5, 43013, 43018, 43100, 43101, 43102, 43103, 43104, 43105, 43106, 43107, 43204, and 43205.5, Health and Safety Code.