

DATA REQUIRED IN CELL D34
DATA REQUIRED IN CELL D35
DATA REQUIRED IN CELL D36
DATA REQUIRED IN CELL D37
DATA REQUIRED IN CELL D38
DATA REQUIRED IN CELL D39

15 ppm Diesel Sulfur Accuracy

Test Method

Name of Method:	0
Organization ID No.:	0

Laboratory Identification

Laboratory Name:	0
Laboratory Street Address:	0
Laboratory City:	0
Laboratory State:	0
Laboratory Zip code:	0
Laboratory Contact Person:	0
Laboratory Contact Phone Number:	0
Laboratory Contact Facsimile Number:	0
Laboratory Contact E-mail Address:	0

Confidential Business Information Claim. A company may assert a business confidentiality claim if such claim is made the information may be made available to the public by EPA under 40 CFR Part 2. Is confidentiality claimed for the information in this submission?

1 to 10 ppm Accuracy Criterion - the arithmetic average of a continuous series of tests on a commercially available gravimetric sulfur standard in the range of 1 to 10 ppm sulfur. The difference between the reference value (ARV) of that standard by more than 0.54 ppm. Individual test results are not to be adjusted for known chemical interferences.

**Accuracy Criterion for 1-10 ppm
gravimetric sulfur standard**

Is 1-10 ppm Sulfur Accuracy Criterion Met?	REQUIRED DATA MISSING		
Arithmetic Average (ppm)	REQUIRED DATA MISSING		
Vendor Name of Gravimetric Standard			
Lot Identification Number of Gravimetric Standard			
Accepted Reference Value (ARV) of Gravimetric Standard (ppm)			
Difference between Arithmetic Average and ARV of Gravimetric Standard	REQUIRED DATA MISSING		
Laboratory Test Identification Number	Date	Time	Test Result (ppm)

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ge of a continuous series of at least 10 tests
 standard in the range of 10 to 20 ppm sulfur
 of that standard by more than 0.54 ppm.
 vn chemical interferences.

SSING	
SING	
	Concentration QC Check on ARV
	ARV TOO LOW IN CONCENTRATION
SING	
Test Result (ppm)	Data Entry QC Check on Test Result
	DATA REQUIRED IN CELL J26
	DATA REQUIRED IN CELL J27
	DATA REQUIRED IN CELL J28
	DATA REQUIRED IN CELL J29
	DATA REQUIRED IN CELL J30
	DATA REQUIRED IN CELL J31

	DATA REQUIRED IN CELL J32
	DATA REQUIRED IN CELL J33
	DATA REQUIRED IN CELL J34
	DATA REQUIRED IN CELL J35

DATA REQUIRED IN CELL D34
DATA REQUIRED IN CELL D35
DATA REQUIRED IN CELL D36
DATA REQUIRED IN CELL D37
DATA REQUIRED IN CELL D38
DATA REQUIRED IN CELL D39

500 ppm Diesel Sulfur Accuracy De

Test Method	
Name of Method:	0
Organization ID No.:	0
Laboratory Identification	
Laboratory Name:	0
Laboratory Street Address:	0
Laboratory City:	0
Laboratory State:	0
Laboratory Zip code:	0
Laboratory Contact Person:	0
Laboratory Contact Phone Number	0
Laboratory Contact Facsimile Number	0
Laboratory Contact E-mail Address	0

Confidential Business Information Claim. A company may assert a business confidential information claim on a submission. If no such claim is made the information may be made available to the public. Is confidentiality claimed? (Indicate by typing "Yes" or "No" in the adjacent cell.)

100 to 200 ppm Accuracy Criterion - the arithmetic average of a continuous series of test results on a commercially available gravimetric sulfur standard in the range of 100 to 200 ppm, which is not more than 7.26 ppm different from the accepted reference value (ARV) of that standard by more than 7.26 ppm. Individual test results are not compensated for any known chemical interferences.

Accuracy Criterion for 100-200 ppm gravimetric sulfur standard			
Is 100-200 ppm Sulfur Accuracy Criterion Met?	REQUIRED DATA MISSING		
Arithmetic Average (ppm):	REQUIRED DATA MISSING		
Vendor Name of Gravimetric Standard:			
Lot Identification Number of Gravimetric Standard:			
Accepted Reference Value (ARV) of Gravimetric Standard (ppm):			
Difference between Arithmetic Average and ARV of Gravimetric Standard:	REQUIRED DATA MISSING		
Laboratory Test Identification Number	Date	Time	Test Result (ppm)

Demonstration [DLQ001:OMB # 2060-0566 Expires 9/30/2005]

Integrity claim covering the information contained in this submission shall not be made public by EPA without further notice. All questions of accuracy shall be answered for the information in this submission? (Note: Please answer by 10/31/05)

Accuracy of at least 10 tests performed on a gravimetric sulfur standard. The average of all test results shall be within ± 7.26 ppm of the accepted reference value (ARV) of the gravimetric standard.

400 to 500 ppm Accuracy Criterion - the arithmetic average of a minimum of 10 tests performed on a commercially available gravimetric sulfur standard. The average of all test results shall not differ from the accepted reference value (ARV) of the gravimetric standard by more than ± 7.26 ppm. Individual test results shall be compensated for any known bias.

Concentration QC Check on ARV
ARV TOO LOW IN CONCENTRATION

Accuracy Criterion for 400-500 ppm gravimetric sulfur standard			
Is 400-500 ppm Sulfur Accuracy Criterion Met?	REQUIRED DATA MISSING		
Arithmetic Average (ppm)	REQUIRED DATA MISSING		
Vendor Name of Gravimetric Standard			
Lot Identification Number of Gravimetric Standard			
Accepted Reference Value (ARV) of Gravimetric Standard (ppm)			
Difference between Arithmetic Average and ARV of Gravimetric Standard	REQUIRED DATA MISSING		
Laboratory Test Identification Number	Date	Time	Test Result (ppm)

Data Entry QC Check on Test Result
DATA REQUIRED IN CELL D26
DATA REQUIRED IN CELL D27
DATA REQUIRED IN CELL D28
DATA REQUIRED IN CELL D29
DATA REQUIRED IN CELL D30
DATA REQUIRED IN CELL D31

DATA REQUIRED IN CELL D32
DATA REQUIRED IN CELL D33
DATA REQUIRED IN CELL D34
DATA REQUIRED IN CELL D35

ontinuous series of at least 10
ard in the range of 400 to 500
of that standard by more than
n chemical interferences.

Concentration QC Check on
ARV

ARV TOO LOW IN
CONCENTRATION

Data Entry QC Check on Test
Result

DATA REQUIRED IN CELL J26

DATA REQUIRED IN CELL J27

DATA REQUIRED IN CELL J28

DATA REQUIRED IN CELL J29

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DATA REQUIRED IN CELL J35

15 ppm Diesel Sulfur Precision Demonstration [DLQ001:OMB # 2060-0566 Expires 9/30/2005]

Test Method				
Name of Method:	Oxidative and Electrochemical Detection			
Organization ID No.:	ASTM D 6428-99			
Laboratory Identification				
Laboratory Name:	USEPA National and Vehicle Fuels Emissions Laboratory/OAR			
Laboratory Street Address:	2565 Plymouth Road, Mailcode AATSG			
Laboratory City:	Ann Arbor			
Laboratory State:	Michigan			
Laboratory Zip code:	48105			
Laboratory Contact Person:	Joe Sopata			
Laboratory Contact Phone Number	202-343-9034			
Laboratory Contact Facsimile Number	202-343-2801			
Laboratory Contact E-mail Address	sopata.joe@epa.gov			
Confidential Business Information Claim. A company may assert a business confidentiality claim covering the information contained in this submission. If no such claim is made the information may be made available to the public by EPA without further notice. All questions of confidentiality will be handled pursuant to 40 CFR Part 2. Is confidentiality claimed for the information in this submission? (Note: Please answer by typing "Yes" or "No" in the adjacent cell.)				No
<p>15 ppm Sulfur Precision Criterion - a standard deviation less than 0.72 ppm, computed from the results of a minimum of 20 repeat tests made over 20 days on samples taken from a single homogenous commercially available diesel fuel with a sulfur range of 5 to 15 ppm. The 20 results must be a series of tests with a sequential record of the analyses and no omissions. A lab facility may exclude a given sample or test result only if the exclusion is for a valid reason under good laboratory practices and it maintains records regarding the sample and test results and the reason for excluding them.</p>				
Is 15 ppm Sulfur Precision Criterion Met?	PASSED			
standard deviation	0.04			
Laboratory Test Identification Number	Date	Time	Test Result (ppm)	Data Entry QC Check on Test Result
#####	10/26/2004	8:00 AM	6.003	OK
#####	10/27/2004	8:01 AM	6.021	OK
#####	10/28/2004	8:20 AM	6.043	OK
#####	10/29/2004	8:23 AM	5.993	OK
#####	10/30/2004	9:00 AM	6.003	OK
#####	11/1/2004	9:10 AM	6.092	OK
#####	11/2/2004	9:20 AM	6.101	OK
#####	11/3/2004	9:30 AM	6.045	OK
#####	11/5/2004	9:40 AM	6.003	OK
#####	11/6/2004	9:50 AM	6.021	OK
#####	11/7/2004	10:00 AM	5.989	OK
#####	11/8/2004	10:10 AM	5.962	OK
#####	11/9/2004	10:20 AM	6.010	OK
#####	11/10/2004	10:30 AM	6.032	OK
#####	11/11/2004	10:40 AM	6.053	OK
#####	11/12/2004	10:50 AM	6.050	OK
#####	11/13/2004	11:00 AM	5.989	OK
#####	11/14/2004	11:10 AM	6.033	OK

#####	11/15/2004	11:20 AM	5.939	OK
#####	11/16/2004	11:30 AM	6.042	OK

15 ppm Diesel Sulfur Accuracy Demonstration [DLQ001:OMB # 200

Test Method	
Name of Method:	Total Sulfur in Liquid Aromatic Hydrocarbons and Their Derivatives by Oxidation
Organization ID No.:	ASTM D 6428-99
Laboratory Identification	
Laboratory Name:	USEPA National and Vehicle Fuels Emissions Laboratory/OAR
Laboratory Street Address:	2565 Plymouth Road, Mailcode AATSG
Laboratory City:	Ann Arbor
Laboratory State:	Michigan
Laboratory Zip code:	48105
Laboratory Contact Person:	Joe Sopata
Laboratory Contact Phone Number	202-343-9034
Laboratory Contact Facsimile Number	202-343-2801
Laboratory Contact E-mail Address	sopata.joe@epa.gov

Confidential Business Information Claim. A company may assert a business confidentiality claim covering information in this submission. If no such claim is made the information may be made available to the public by EPA. Questions of confidentiality will be handled pursuant to 40 CFR Part 2. Is confidentiality claimed for the information in this submission? (Note: Please answer by typing "Yes" or "No" in the adjacent cell.)

1 to 10 ppm Accuracy Criterion - the arithmetic average of a continuous series of at least 10 tests performed on a commercially available gravimetric sulfur standard in the range of 1 to 10 ppm sulfur shall not differ from the accepted reference value (ARV) of that standard by more than 0.54 ppm. Individual test results shall be compensated for any known chemical interferences.

Accuracy Criterion for 1-10 ppm gravimetric sulfur standard				
Is 1-10 ppm Sulfur Accuracy Criterion Met?	PASSED			
Arithmetic Average (ppm)	7.95			
Vendor Name of Gravimetric Standard	NIST			
Lot Identification Number of Gravimetric Standard	ALDS45678		Concentration QC Check on ARV	
Accepted Reference Value (ARV) of Gravimetric Standard (ppm)	8.00		OK	
Difference between Arithmetic Average and ARV of Gravimetric Standard	0.0515			
Laboratory Test Identification Number	Date	Time	Test Result (ppm)	Data Entry QC Check on Test Result
#####	1/13/2005	8:00 AM	7.341	OK
#####	1/13/2005	8:30 AM	7.562	OK
#####	1/13/2005	9:00 AM	7.894	OK
#####	1/13/2005	9:30 AM	8.219	OK
#####	1/13/2005	10:00 AM	8.234	OK
#####	1/13/2005	10:30 AM	8.100	OK

#####	1/13/2005	11:00 AM	8.114	OK
#####	1/13/2005	11:30 AM	7.989	OK
#####	1/13/2005	12:00 PM	7.687	OK
#####	1/13/2005	12:30 PM	8.345	OK

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ative and Electrochemical Detection	
g the information contained without further notice. All information in this	No

10 to 20 ppm Accuracy Criterion - the arithmetic average of a continuous series of at least 10 tests performed on a commercially available gravimetric sulfur standard in the range of 10 to 20 ppm sulfur shall not differ from the accepted reference value (ARV) of that standard by more than 0.54 ppm. Individual test results shall be compensated for any known chemical interferences.

Accuracy Criterion for 10-20 ppm gravimetric sulfur standard				
Is 10-20 ppm Sulfur Accuracy Criterion Met?	PASSED			
Arithmetic Average (ppm)	13.91			
Vendor Name of Gravimetric Standard	NIST			
Lot Identification Number of Gravimetric Standard	ALDS53478	Concentration QC Check on ARV		
Accepted Reference Value (ARV) of Gravimetric Standard (ppm)	13.50	OK		
Difference between Arithmetic Average and ARV of Gravimetric Standard	0.407499999999999			
Laboratory Test Identification Number	Date	Time	Test Result (ppm)	Data Entry QC Check on Test Result
#####	1/14/2005	8:00 AM	13.239	OK
#####	1/14/2005	8:30 AM	14.231	OK
#####	1/14/2005	9:00 AM	13.899	OK
#####	1/14/2005	9:30 AM	14.035	OK
#####	1/14/2005	10:00 AM	14.001	OK
#####	1/14/2005	10:30 AM	13.980	OK

#####	1/14/2005	11:00 AM	13.211	OK
#####	1/14/2005	11:30 AM	14.345	OK
#####	1/14/2005	12:00 PM	13.678	OK
#####	1/14/2005	12:30 PM	14.456	OK

500 ppm Diesel Sulfur Precision Demonstration [DLQ001:OMB # 2060-0566 Expires 9/30/2005]

Test Method				
Name of Method:	Dispersive X-ray Fluorescence Spectrometry			
Organization ID No.:	ASTM D 2622-03			
Laboratory Identification				
Laboratory Name:	USEPA National and Vehicle Fuels Emissions Laboratory/OAR			
Laboratory Street Address:	2565 Plymouth Road, Mailcode AATSG			
Laboratory City:	Ann Arbor			
Laboratory State:	Michigan			
Laboratory Zip code:	48105			
Laboratory Contact Person:	Joe Sopata			
Laboratory Contact Phone Number	202-343-9034			
Laboratory Contact Facsimile Number	202-343-2801			
Laboratory Contact E-mail Address	sopata.joe@epa.gov			
Confidential Business Information Claim. A company may assert a business confidentiality claim covering the information contained in this submission. If no such claim is made the information may be made available to the public by EPA without further notice. All questions of confidentiality will be handled pursuant to 40 CFR Part 2. Is confidentiality claimed for the information in this submission? (Note: Please answer by typing "Yes" or "No" in the adjacent cell.)				No
<p>500 ppm Sulfur Precision Criterion - a standard deviation less than 9.68 ppm, computed from the results of a minimum of 20 repeat tests made over 20 days on samples taken from a single homogenous commercially available diesel fuel with a sulfur range of 200 to 500 ppm. The 20 results must be a series of tests with a sequential record of the analyses and no omissions. A lab facility may exclude a given sample or test result only if the exclusion is for a valid reason under good laboratory practices and it maintains records regarding the sample and test results and the reason for excluding them.</p>				
Is 500 ppm Sulfur Precision Criterion Met?	PASSED			
standard deviation	4.49			
Laboratory Test Identification Number	Date	Time	Test Result (ppm)	Data Entry QC Check on Test Result
#####	10/26/2004	8:00 AM	330.023	OK
#####	10/27/2004	8:01 AM	331.234	OK
#####	10/28/2004	8:20 AM	332.897	OK
#####	10/29/2004	8:23 AM	334.598	OK
#####	10/30/2004	9:00 AM	335.998	OK
#####	11/1/2004	9:10 AM	328.359	OK
#####	11/2/2004	9:20 AM	329.062	OK
#####	11/3/2004	9:30 AM	330.108	OK
#####	11/5/2004	9:40 AM	333.730	OK
#####	11/6/2004	9:50 AM	335.092	OK
#####	11/7/2004	10:00 AM	326.340	OK
#####	11/8/2004	10:10 AM	328.903	OK
#####	11/9/2004	10:20 AM	329.863	OK
#####	11/10/2004	10:30 AM	332.998	OK

#####	11/11/2004	10:40 AM	334.001	OK
#####	11/12/2004	10:50 AM	340.100	OK
#####	11/13/2004	11:00 AM	341.102	OK
#####	11/14/2004	11:10 AM	339.887	OK
#####	11/15/2004	11:20 AM	338.776	OK
#####	11/16/2004	11:30 AM	340.002	OK

500 ppm Diesel Sulfur Accuracy Demonstration [DLQ001:OMB #

Test Method	
Name of Method:	Standard Test Method for Sulfur in Petroleum Products by Wavelength Disper
Organization ID No.:	ASTM D 2622-03

Laboratory Identification	
Laboratory Name:	USEPA National and Vehicle Fuels Emissions Laboratory/OAR
Laboratory Street Address:	2565 Plymouth Road, Mailcode AATSG
Laboratory City:	Ann Arbor
Laboratory State:	Michigan
Laboratory Zip code:	48105
Laboratory Contact Person:	Joe Sopata
Laboratory Contact Phone Number	202-343-9034
Laboratory Contact Facsimile Number	202-343-2801
Laboratory Contact E-mail Address	sopata.joe@epa.gov

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100 to 200 ppm Accuracy Criterion - the arithmetic average of a continuous series of at least 10 tests performed on a commercially available gravimetric sulfur standard in the range of 100 to 200 ppm sulfur shall not differ from the accepted reference value (ARV) of that standard by more than 7.26 ppm. Individual test results shall be compensated for any known chemical interferences.

Accuracy Criterion for 100-200 ppm gravimetric sulfur standard				
Is 100-200 ppm Sulfur Accuracy Criterion Met?	PASSED			
Arithmetic Average (ppm):	150.56			
Vendor Name of Gravimetric Standard:	NIST			
Lot Identification Number of Gravimetric Standard:	AMD4567	Concentration QC Check on ARV		
Accepted Reference Value (ARV) of Gravimetric Standard (ppm):	151.00	OK		
Difference between Arithmetic Average and ARV of Gravimetric Standard:	0.435699999999997			
Laboratory Test Identification Number	Date	Time	Test Result (ppm)	Data Entry QC Check on Test Result
#####	1/13/2005	8:00 AM	150.003	OK
#####	1/13/2005	8:30 AM	150.030	OK
#####	1/13/2005	9:00 AM	150.100	OK
#####	1/13/2005	9:30 AM	149.650	OK
#####	1/13/2005	10:00 AM	148.500	OK
#####	1/13/2005	10:30 AM	150.000	OK

#####	1/13/2005	11:00 AM	150.100	OK
#####	1/13/2005	11:30 AM	151.910	OK
#####	1/13/2005	12:00 PM	152.130	OK
#####	1/13/2005	12:30 PM	153.220	OK

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ative X-ray Fluorescence Spectrometry	
e information contained in this rther notice. All questions of submission? (Note: Please	No

400 to 500 ppm Accuracy Criterion - the arithmetic average of a continuous series of at least 10 tests performed on a commercially available gravimetric sulfur standard in the range of 400 to 500 ppm sulfur shall not differ from the accepted reference value (ARV) of that standard by more than 7.26 ppm. Individual test results shall be compensated for any known chemical interferences.

Accuracy Criterion for 400-500 ppm gravimetric sulfur standard				
Is 400-500 ppm Sulfur Accuracy Criterion Met?	PASSED			
Arithmetic Average (ppm)	498.40			
Vendor Name of Gravimetric Standard	NIST			
Lot Identification Number of Gravimetric Standard	MNV5678	Concentration QC Check on ARV		
Accepted Reference Value (ARV) of Gravimetric Standard (ppm)	500.00	OK		
Difference between Arithmetic Average and ARV of Gravimetric Standard	1.60470000000004			
Laboratory Test Identification Number	Date	Time	Test Result (ppm)	Data Entry QC Check on Test Result
#####	1/14/2005	8:00 AM	499.980	OK
#####	1/14/2005	8:30 AM	498.970	OK
#####	1/14/2005	9:00 AM	496.451	OK
#####	1/14/2005	9:30 AM	498.670	OK
#####	1/14/2005	10:00 AM	495.980	OK
#####	1/14/2005	10:30 AM	497.560	OK

#####	1/14/2005	11:00 AM	499.450	OK
#####	1/14/2005	11:30 AM	497.890	OK
#####	1/14/2005	12:00 PM	499.012	OK
#####	1/14/2005	12:30 PM	499.990	OK