15 ppm Diesel Sulfur Precision Demonstration [DLQ001:OMB # 2060-0566 Ex

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

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.)

15 ppm Sulfur Precision Criterion - a standard deviation less than 0.72 ppm, computed from the rests made over 20 days on samples taken from a single homogenous commerically available diese ppm. The 20 results must be a series of tests with a sequential record of the analyses and no omiss given sample or test result only if the exclusion is for a valid reason under good laboratory practices regarding the sample and test results and the reason for excluding them.

Is 15 ppm Sulfur Precision Criterion Met?	REQUIRED DATA MISSING		
standard deviation	REQUIRED DATA MISSING		
Laboratory Test Identification Number	Date Time Test F		Test Result (ppm)

pires 9/30/2005]



esults of a minimum of 20 repeat I fuel with a sulfur range of 5 to 15 sions. A lab facility may exclude a and it maintains records

Data Entry QC Check on Test Result
DATA REQUIRED IN CELL D20
DATA REQUIRED IN CELL D21
DATA REQUIRED IN CELL D22
DATA REQUIRED IN CELL D23
DATA REQUIRED IN CELL D24
DATA REQUIRED IN CELL D25
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
DATA REQUIRED IN CELL D36
DATA REQUIRED IN CELL D37
DATA REQUIRED IN CELL D38
DATA REQUIRED IN CELL D39

15 ppm Diesel Sulfur Accura

Test Method		
Name of Method:	0	
Laboratory Identification	0	
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 cor such claim is made the information may be made available to the public by EPA to 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 commercially available gravimetric sulfur standard in the range of 1 to 10 ppm su reference value (ARV) of that standard by more than 0.54 ppm. Individual test r known chemical interferences.

Accuracy Criterion for 1-10 ppm				
gravimetric sulfur standard				
Is 1-10 ppm Sulfur Accuracy Criterion Met?	REQUIRE	D DATA MI	<u>SSING</u>	
Arithmetic Average (ppm)	REQUIR	ED DATA MIS	SING	
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		SING	
Laboratory Test Identification Number	Date	Time	Test Result (ppm)	

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

nfidentiality claim covering the information without further notice. All questions of co n? (Note: Please answer by typing "Yes" of	contained nfidentialit or "No" in t	in this submission. If no y will be handled pursuant he adjacent cell.)		
s of at least 10 tests performed on a ulfur shall not differ from the accepted esults shall be compensated for any		10 to 20 ppm Accuracy Cr performed on a commercial shall not differ from the acco Individual test results shall I	r iterion - the a ly available gr epted referenc be compensat	arithmetic avera avimetric sulfur ce value (ARV) ed for any knov
		Accuracy (Criterion for 1	<u>.0-20 ppm</u>
		<u>Accuracy (</u> gravime	Criterion for 1 etric sulfur sta	<u>l0-20 ppm</u> andard
		Accuracy (gravime Is 10-20 ppm Sulfur Accuracy Criterion Met?	Criterion for 1 etric sulfur sta REQUIR	<u>LO-20 ppm</u> andard ED DATA MI
		Accuracy C gravime Is 10-20 ppm Sulfur Accuracy Criterion Met? Arithmetic Average (ppm) Vendor Name of Gravimetric Standard	<u>Criterion for 1</u> tric sulfur sta <u>REQUIR</u> <u>REQUIF</u>	<u>LO-20 ppm</u> andard ED DATA MI RED DATA MIS
Concentration QC Check on ARV		Accuracy (gravime Is 10-20 ppm Sulfur Accuracy Criterion Met? Arithmetic Average (ppm) Vendor Name of Gravimetric Standard Lot Identification Number of Gravimetric Standard	Criterion for 1	<u>LO-20 ppm</u> andard ED DATA MI RED DATA MIS
Concentration QC Check on ARV ARV TOO LOW IN CONCENTRATION		Accuracy (gravime Is 10-20 ppm Sulfur Accuracy Criterion Met? Arithmetic Average (ppm) Vendor Name of Gravimetric Standard Lot Identification Number of Gravimetric Standard Accepted Reference Value (ARV) of Gravimetric Standard (ppm)	Criterion for 1	<u>LO-20 ppm</u> andard ED DATA MI RED DATA MIS
Concentration QC Check on ARV ARV TOO LOW IN CONCENTRATION		Accuracy C gravime Is 10-20 ppm Sulfur Accuracy Criterion Met? Arithmetic Average (ppm) 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	Criterion for 1	<u>ed DATA MI</u>
Concentration QC Check on ARV ARV TOO LOW IN CONCENTRATION Data Entry QC Check on Test Result		Accuracy C gravime Is 10-20 ppm Sulfur Accuracy Criterion Met? Arithmetic Average (ppm) 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 Laboratory Test Identification Number	Criterion for 1 tric sulfur sta REQUIR REQUIF REQUIF Date	LO-20 ppm andard ED DATA MI RED DATA MIS RED DATA MIS Time
Concentration QC Check on ARV ARV TOO LOW IN CONCENTRATION Data Entry QC Check on Test Result DATA REQUIRED IN CELL D26		Accuracy C gravime Is 10-20 ppm Sulfur Accuracy Criterion Met? Arithmetic Average (ppm) 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 Laboratory Test Identification Number	Criterion for 1 Criterio for 1 Criterion for 1 Criterion for 1 Criterion for 1	LO-20 ppm andard ED DATA MI RED DATA MIS RED DATA MIS Time
Concentration QC Check on ARV ARV TOO LOW IN CONCENTRATION Data Entry QC Check on Test Result DATA REQUIRED IN CELL D26 DATA REQUIRED IN CELL D27		Accuracy C gravime Is 10-20 ppm Sulfur Accuracy Criterion Met? Arithmetic Average (ppm) 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 Laboratory Test Identification Number	Criterion for 1 Criterio for 1 Criterion for 1 Criterion for 1 Criterion for 1	Andard ED DATA MI RED DATA MIS RED DATA MIS Time
Concentration QC Check on ARV ARV TOO LOW IN CONCENTRATION 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		Accuracy C gravime Is 10-20 ppm Sulfur Accuracy Criterion Met? Arithmetic Average (ppm) 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 Laboratory Test Identification Number	Criterion for 1 Criterio for 1 Criterion for 1 Criterion for 1 Criterion for 1	CO-20 ppm andard ED DATA MI RED DATA MIS RED DATA MIS Time
Concentration QC Check on ARV ARV TOO LOW IN CONCENTRATION 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 D29		Accuracy C gravime Is 10-20 ppm Sulfur Accuracy Criterion Met? Arithmetic Average (ppm) 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 Laboratory Test Identification Number	Criterion for 1 Criterio for 1 Criterion for 1 Criterion for 1 Criterion for 1	Andard ED DATA MI ED DATA MIS RED DATA MIS Time

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

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.

<u>SSING</u>	
<u>SING</u>	
	Concentration QC Check on ARV
	ARV TOO LOW IN CONCENTRATION
<u>SING</u>	
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

500 ppm Diesel Sulfur Precision Demonstration [DLQ001:OMB # 2060-0566 E:

Test Method	
Name of Method:	
Organization ID No.:	
Laboratory Identification	
Laboratory Name:	
Laboratory Street Address:	
Laboratory City:	
Laboratory State:	
Laboratory Zip code:	
Laboratory Contact Person:	
Laboratory Contact Phone Number	
Laboratory Contact Facsimile Number	
Laboratory Contact E-mail Address	
1	

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500 ppm Sulfur Precision Criterion - a standard deviation less than 9.68 ppm, computed from the tests made over 20 days on samples taken from a single homogenous commerically available diese 500 ppm. The 20 results must be a series of tests with a sequential record of the analyses and no c exclude a given sample or test result only if the exclusion is for a valid reason under good laboratory records regarding the sample and test results and the reason for excluding them.

Is 500 ppm Sulfur Precision Criterion Met?	REQUIRED DATA MISSING			
standard deviation	REQUIRED DATA MISSING			
Laboratory Test Identification Number	Date Time Test Result		Test Result (ppm)	

xpires 9/30/2005]



results of a minimum of 20 repeat I fuel with a sulfur range of 200 to missions. A lab facility may / practices and it maintains

Data Entry QC Check on Test Result
DATA REQUIRED IN CELL D20
DATA REQUIRED IN CELL D21
DATA REQUIRED IN CELL D22
DATA REQUIRED IN CELL D23
DATA REQUIRED IN CELL D24
DATA REQUIRED IN CELL D25
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
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 confid submission. If no such claim is made the information may be made available to the confidentiality will be handled pursuant to 40 CFR Part 2. Is confidentiality claimed typing "Yes" or "No" in the adjacent cell.)

100 to 200 ppm Accuracy Criterion - the arithmetic average of a continuous serie on a commercially available gravimetric sulfur standard in the range of 100 to 200 μ accepted reference value (ARV) of that standard by more than 7.26 ppm. Individua compensated for any known chemical interferences.

Accuracy Criterion for 100-200 ppm				
gravimetric sulfur standard				
Is 100-200 ppm Sulfur Accuracy Criterion Met?	REQU	IIRED DA	TA 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 (pp			

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

lentiality claim covering the informati	ion contained in this			
Public by EPA without further notice for the information in this submission	e. All questions of n? (Note: Please answer by			
es of at least 10 tests performed opm sulfur shall not differ from the al test results shall be	400 to 500 ppm Accurac tests performed on a com ppm sulfur shall not differ 7.26 ppm. Individual test	y Criterion - th mercially availa from the accep results shall be	ne arithmetic a able gravimetr oted reference compensate	average of a co ic sulfur stand value (ARV) o d for any know
	Accuracy (Criterion for 4	00-500 ppm tandard	
	Is 400-500 ppm Sulfur Accuracy Criterion Met?	REQUIR	ED DATA N	<u>AISSING</u>
	Arithmetic Average (ppm)	REQUI	RED DATA M	ISSING
	Vendor Name of Gravimetric Standard			
Concentration QC Check on ARV	Lot Identification Number of Gravimetric Standard			
ARV TOO LOW IN CONCENTRATION	Accepted Reference Value (ARV) of Gravimetric Standard (ppm)			
	Difference between Arithmetic Average and ARV of Gravimetric Standard	REQUI	RED DATA M	<u>ISSING</u>
Data Entry QC Check on Test Result	Laboratory Test Identification Number	Date	Time	Test Result (ppm)
DATA REQUIRED IN CELL D26				
DATA REQUIRED IN CELL D28				
DATA REQUIRED IN CELL D29				
DATA REQUIRED IN CELL D30 DATA REQUIRED IN CELL D31				

٦

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		
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

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	r 202-343-9034				
Laboratory Contact Facsimile	9				
Number	r 202-343-2801				
Laboratory Contact E-mail					
Address	<u>sopata.joe@epa.gov</u>				
Confidential Business Information Claim. A company may assert a					
business confidentiality claim c	business confidentiality claim covering the information contained in this				
available to the public by EPA	without further notice All questions of	No			
confidentiality will be handled p	oursuant to 40 CFR Part 2. Is				
confidentiality claimed for the ir	formation in this submission? (Note:				
Please answer by typing "Yes"	or "No" in the adjacent cell.)				

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 commerically 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.

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	ОК
##########	10/27/2004	8:01 AM	6.021	ОК
##########	10/28/2004	8:20 AM	6.043	ОК
##########	10/29/2004	8:23 AM	5.993	ОК
##########	10/30/2004	9:00 AM	6.003	ОК
##########	11/1/2004	9:10 AM	6.092	ОК
#########	11/2/2004	9:20 AM	6.101	ОК
#########	11/3/2004	9:30 AM	6.045	ОК
#########	11/5/2004	9:40 AM	6.003	ОК
#########	11/6/2004	9:50 AM	6.021	ОК
##########	11/7/2004	10:00 AM	5.989	OK
#########	11/8/2004	10:10 AM	5.962	ОК
##########	11/9/2004	10:20 AM	6.010	ОК
##########	11/10/2004	10:30 AM	6.032	ОК
##########	11/11/2004	10:40 AM	6.053	ОК
#########	11/12/2004	10:50 AM	6.050	OK
##########	11/13/2004	11:00 AM	5.989	ОК
#########	11/14/2004	11:10 AM	6.033	OK

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

15 ppm Diesel Sulfur Accuracy Demonstration [DLQ001:OMB # 20]

Test Method							
Name of Method:	Total Sulfur in Liquid Aromatic Hydrocarbons and Their Derivatives by Oxid						
Organization ID No.:	ASTM D 64	ASTM D 6428-99					
Laboratory Identification							
Laboratory Name:	USEPA Na	tional and \	Vehicle Fuels	s Emissions Laboratory/OAR			
Laboratory Street Address:	2565 Plym	2565 Plymouth Road, Mailcode AATSG					
Laboratory City:	Ann Arbor	Ann Arbor					
Laboratory State:	Michigan	Aichigan					
Laboratory Zip code:	48105	48105					
Laboratory Contact Person:	Joe Sopata	loe Sopata					
Laboratory Contact Phone Number	202-343-90	202-343-9034					
Laboratory Contact Facsimile Number	202-343-28	301					
Laboratory Contact E-mail Address	sopata.ioe	@epa.gov					
Confidential Rusiness Inform	ation Claim			t a business confidentiality claim covering			
in this submission. If no such questions of confidentiality wi submission? (Note: Please a	l claim is ma Il be handle Inswer by ty	ade the info d pursuant ping "Yes"	to 40 CFR F or "No" in the	where a business confidentiality claim covering where a business confidentiality claimed for the 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 Crit	terion for 1	<u>-10 ppm</u>					
gravimetric	<u>sulfur sta</u>	<u>ndard</u>					
Is 1-10 ppm Sulfur Accuracy Criterion Met?		PASSED	<u>)</u>				
Arithmetic Average (ppm)		7.95					
Vendor Name of Gravimetric Standard		NIST					
Lot Identification Number of Gravimetric Standard		ALDS4567	8	Concentration QC Check on ARV			
Accepted Reference Value (ARV) of Gravimetric Standard (ppm)		8.00	ОК				
Difference between Arithmetic Average and ARV of Gravimetric Standard	0.0515						
		0.0515					
Laboratory Test Identification Number	Date	Time	Test Result (ppm)	Data Entry QC Check on Test Result			
Laboratory Test Identification Number	Date 1/13/2005	Time 8:00 AM	Test Result (ppm) 7.341	Data Entry QC Check on Test Result OK			
Laboratory Test Identification Number ###############	Date 1/13/2005 1/13/2005	Time 8:00 AM 8:30 AM	Test Result (ppm) 7.341 7.562	Data Entry QC Check on Test Result OK OK			
Laboratory Test Identification Number ############## #####################	Date 1/13/2005 1/13/2005 1/13/2005	Time 8:00 AM 8:30 AM 9:00 AM	Test Result (ppm) 7.341 7.562 7.894	Data Entry QC Check on Test Result OK OK OK			
Laboratory Test Identification Number ############# ######################	Date 1/13/2005 1/13/2005 1/13/2005 1/13/2005	0.0313 Time 8:00 AM 8:30 AM 9:00 AM 9:30 AM	Test Result (ppm) 7.341 7.562 7.894 8.219	Data Entry QC Check on Test Result OK OK OK OK			
Laboratory Test Identification Number ########## ############# ###########	Date 1/13/2005 1/13/2005 1/13/2005 1/13/2005 1/13/2005	0.0313 Time 8:00 AM 8:30 AM 9:00 AM 9:30 AM 10:00 AM	Test Result (ppm) 7.341 7.562 7.894 8.219 8.234	Data Entry QC Check on Test Result OK OK OK OK			

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

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ative and Electrochemical D	etection
g the information contained	
vitriout luttrier notice. All	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 Crit				
gravimetri]			
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			ОК
Difference between Arithmetic Average and ARV of Gravimetric Standard	0.4074999999999999			
Laboratory Test Identification Number	Date	Time	Test Result (ppm)	Data Entry QC Check on Test Result
#########	1/14/2005	8:00 AM	13.239	ОК
##########	1/14/2005	8:30 AM	14.231	ОК
#########	1/14/2005	9:00 AM	13.899	ОК
#########	1/14/2005	9:30 AM	14.035	ОК
#########	1/14/2005	10:00 AM	14.001	ОК
##########	1/14/2005	10:30 AM	13.980	OK

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

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

lest Method						
Name of Method:	Dispersive X-ray Fluorescence Spectron	netry				
Organization ID No.:	ASTM D 2622-03					
Laboratory Identification						
Laboratory Name:	JSEPA 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	il sopata.joe@epa.gov					
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500 ppm Sulfur Precision (ritarian - a standard deviation less than	0.68 nnm, computed from the				

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 commerically 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.

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	ОК
#########	10/27/2004	8:01 AM	331.234	ОК
#########	10/28/2004	8:20 AM	332.897	ОК
#########	10/29/2004	8:23 AM	334.598	ОК
#########	10/30/2004	9:00 AM	335.998	ОК
#########	11/1/2004	9:10 AM	328.359	ОК
#########	11/2/2004	9:20 AM	329.062	ОК
#########	11/3/2004	9:30 AM	330.108	ОК
#########	11/5/2004	9:40 AM	333.730	ОК
#########	11/6/2004	9:50 AM	335.092	ОК
#########	11/7/2004	10:00 AM	326.340	ОК
#########	11/8/2004	10:10 AM	328.903	ОК
#########	11/9/2004	10:20 AM	329.863	ОК
#########	11/10/2004	10:30 AM	332.998	ОК

#########	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			

Confidential Business Information Claim. A company may assert a business confidentiality claim covering th submission. If no such claim is made the information may be made available to the public by EPA without fu confidentiality will be handled pursuant to 40 CFR Part 2. Is confidentiality claimed for the information in this answer by typing "Yes" or "No" in the adjacent cell.)

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			ОК
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	ОК
#########	1/13/2005 8:00 AM 150.003 1/13/2005 8:30 AM 150.030		150.030	ОК
#########	1/13/2005	9:00 AM	150.100	ОК
#########	1/13/2005	9:30 AM	149.650	ОК
#########	1/13/2005 10:00 AM 148.500			ОК
#########	1/13/2005 10:30 AM 150.000			ОК

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

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

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400 to 500 ppm Accuracy tests performed on a comm ppm sulfur shall not differ fr 7.26 ppm. Individual test re	Criterion - thercially availation of the acception of the	ne arithmetic a able gravimetrio ted reference compensated	verage of a c sulfur star value (ARV for any kno	continuous series of at least 10 ndard in the range of 400 to 500) of that standard by more than own chemical interferences.
Accuracy Criterion for 400-500 ppm				
gravime	<u>tric sulfur sta</u>	andard		
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			ОК
Difference between Arithmetic Average and ARV of Gravimetric Standard	1.6047000000004			
Laboratory Test Identification Number	Date	Time	Test Result (ppm)	Data Entry QC Check on Test Result
##########	1/14/2005	8:00 AM	499.980	ОК
##########	1/14/2005	8:30 AM	498.970	ОК
##########	1/14/2005	9:00 AM	496.451	ОК
##########	1/14/2005	9:30 AM	ОК	
#########	1/14/2005	10:00 AM	495.980	ОК
#########	1/14/2005	10:30 AM	497.560	ОК

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