

Example Template - Federal Tier 3 Banking & Trading LDV/LDT1 Vehicle Table for One Model Year

Manufacturer: _____

Date: _____

Purpose and Scope of this Guidance Document

This document was prepared by EPA's Office of Transportation and Air Quality (OTAQ). It is one of several intended to aid regulated parties in reporting Tier 3 and Cold NMHC Averaging, Banking and Trading (AB&T) information and calculating AB&T fleet average credits for light-duty vehicles and certain heavy-duty class 2b and 3 vehicles, ref. 40 CFR 86.1862-04(c). It contains EPA's recommended format for manufacturers to report to EPA their end-of-year Tier 3 AB&T calculations, credits and other information with respect to the implementation of the EPA Tier 3 final rule (79 FR 23414, April 28, 2014) as amended (80 FR 9078, February 19, 2015; 80 FR 26463, May 8, 2015); ref. 40 CFR Parts 85, 86, 600, 1065, 1066. Use of this document is purely optional.

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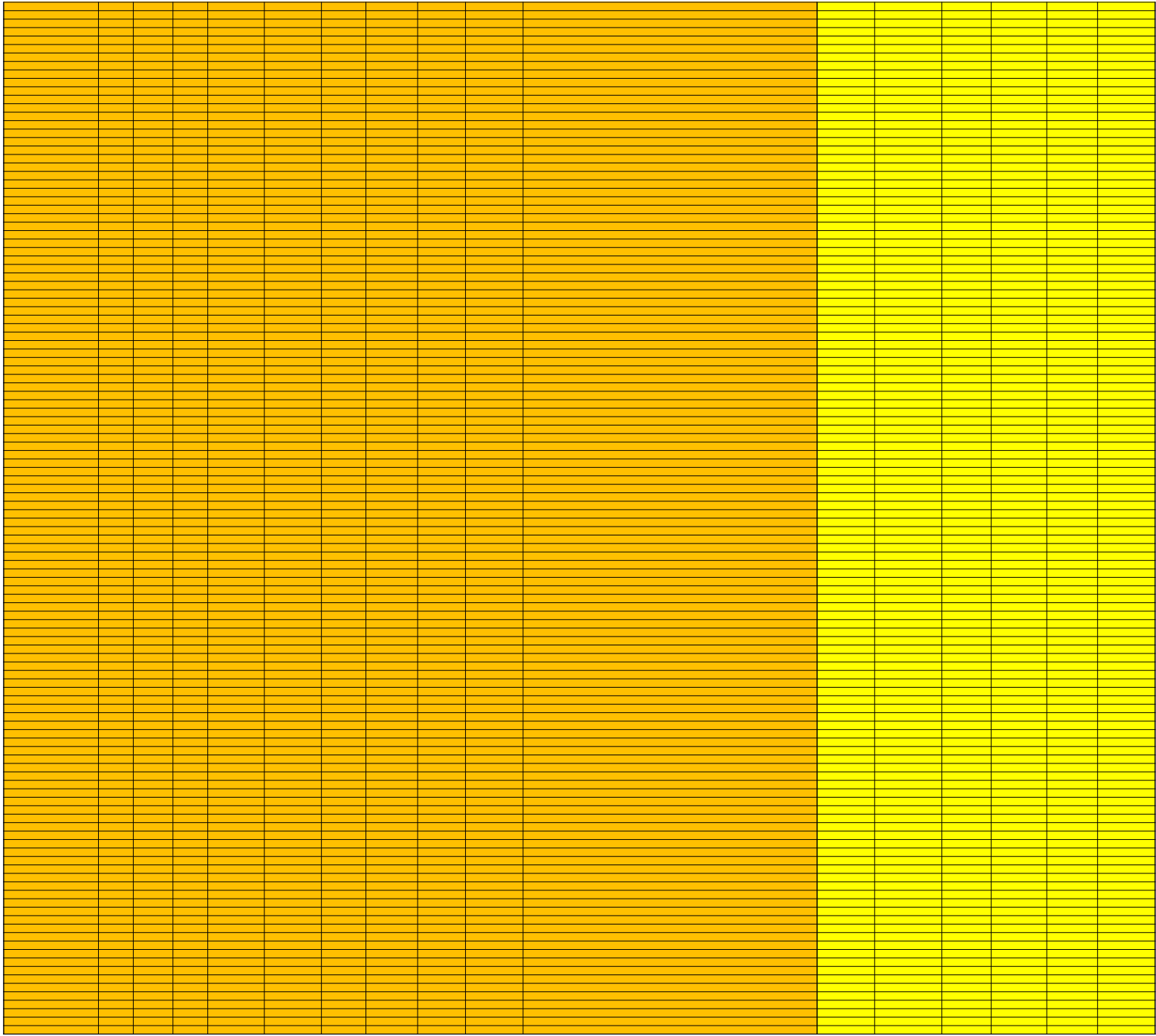
120K Averaging Set				
NOTE: This 120K averaging set is not expected to be used by many manufacturers (if any). See 40 CFR 86.1805-1 (f) and the preamble discussion of the Tier 3 final rule at 79 FR 23450-51, 23475, April 28, 2014, or obtain prior EPA approval before using the 120K averaging set in this spreadsheet.				
Emission Standard	Total Production	Fleet average compliance	Fleet average standard	Credits or Debits
		g/mi	g/mi	g/mi
FTP (NMOG+NOx)	250,000	0.099	0.073	(6,500)
SFTP (NMOG+NOx)	210,000	#NAME?	0.103	#NAME?

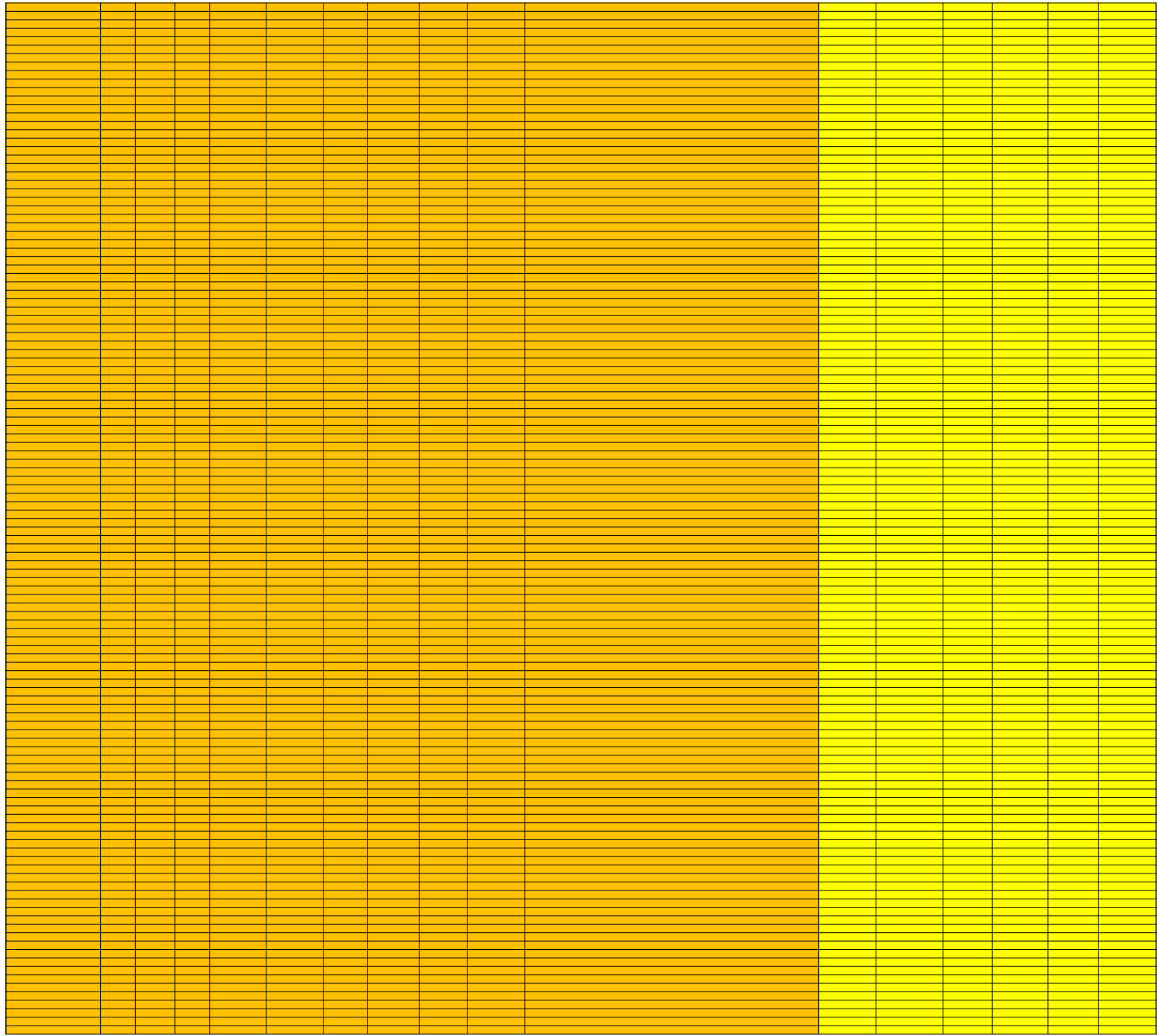
150K Averaging Set				
Emission Standard	Total Production	Fleet average compliance	Fleet average standard	Credits or Debits
		g/mi	g/mi	g/mi
FTP (NMOG+NOx)	283,840	0.052	0.086	9,651
SFTP (NMOG+NOx)	SFTP 150K Fleet Average Credits or Debits are calculated for all LDVs, LDTs, MDPVs on the "LDT2,HLDT,MDPV" Tab.			

Instructions

Select Model Year:	2017
Small Volume under 86.1811-17(h)(1)?	No

Test Group	Bin (NMOG + NOx)	SFTP NMOG + NOx FEL standard	Test Group Useful Life of Averaging Set (x 1000 Miles)	FTP Useful Life of Averaging Set (x 1000 Miles)	SFTP Useful Life of Averaging Set (x 1000 Miles)	150K Warranty per 86.1811-17(b)(4)(ii) Yes or No	50-State Direct Ozone Reduction (DOR) (LEV 3 reqs) Yes or No	If yes to DOR, CARB Approved Level g/mi	Production (50-State) # of Units	Comments	FTP NMOG + NOx standard	Actual FTP NMOG + NOx Standard Level (Derived from columns G, H, I, L)	FTP Production x Bin	SFTP Production x Bin	FTP Intermediate calculation	SFTP Intermediate calculation
		[Column B Bin x 0.001]									[Column G Bin x 0.001]	[Columns J x M]	[Columns J x C]			
		g/mi	x1000 MI	(x 1000 Miles)	(x 1000 Miles)	Yes	Yes	g/mi	# of Units		g/mi	g/mi	g/mi	g/mi		
A	160	0.160	120	150	150	No	No		39,486	Bin 160 120K Useful Life (included in 150K FTP & SFTP Averaging sets); [Formatted comments held cells to "wrap text" as shown in example comments for this cell.]	0.160	0.155	6115.99	6313.28	0.02389194794186	
B	125	0.130	120	150	150	No	No		20,382		0.125	0.125	2547.75	2649.66	0.008976007611	0.1002736117891
C	20	0.020	150	150	150	Yes	Yes	0.005	45,000		0.020	0.010	450	8000.001585400223	0.034089588352	
D	30	0.050	150	150	150	No	No		79,000		0.050	0.050	3950	39500.013916290668	0.1494836192444	
E	0	0.000	150	150	150	Yes	No		10,000		0.000	0.000	0	0	0	0
F	20	N/A	150	150	N/A	No	No		90,000	Meets CARB Stand alone SFTP standards ref. 86.1811-17(d)(8)(i)(C)	0.020	0.020	1800	1.00624160902		
G	150	0.140	120	120	120	No	No		120,000		0.150	0.150	18000	16800	0.0768	0.08
H	30	0.140	120	120	120	No	No		90,000		0.030	0.030	2700	12600	0.0108	0.06
I	70	N/A	120	120	N/A	No	No		40,000	Meets CARB Stand alone SFTP standards ref. 86.1811-17(d)(8)(i)(C)	0.070	0.070	2800		0.0112	





Example Template - Banking & Trading 120K Summary Table- FTP NMOG+NOX

Manufacturer: _____

Date: _____

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Instructions	
Select Model Year:	2017
Select Type of Report:	Final Model Year Report
Select Program:	120k Useful Life
Small Volume?	No

Enter "X" to indicate method used to calculate 2015-2017 Early Credits:	
Method (Check only one)	J. Check one, if applicable:
§86.1811-17(b)(10) & (b)(11)(ix) (e.g. EPA Early Credit Calculator on web)	
§86.1811-17(b)(11)(ix) & §86.1861; (Compare Bin to §86.1811-17(b)(11) Stds)	X

If using the §86.1811-17(b)(10) & (b)(11)(ix) method, enter the results from the EPA Early Credit Calculator on web here:

End of Model Year 2017 credit banks (Early Tier 3 and true Tier 3 credits)

Fleet Credit or (Debits)				
Model Year	MY15e	MY16e	MY17e and MY17	
Capped / Settled Early Tier 3 bank	485	485	Not Applicable	
Tier 3 bank			500	

A. Date of Transaction	B. Model Year	C. Category	Fleet Average Compliance Level			G. Credit (Debit) [Calc from J10, J11, D,E,F]	Date Credits/Debits were earned	Date Credits will expire	Last Date When Credits can be Traded	Comments
			D. Applicable FTP Standards	E. Mfr FTP Compliance Level	F. Production Volume					
			gram/mi	gram/mi	units	gram/mi				

2015 Early Credits:

5/1/2018	2015	LDV/LDT/MDPV	Not Applicable			0	12/31/2015	12/31/2020	12/31/2020	2015 Early FTP Credits from attached EPA Early Credits AB&T work sheet; ref. https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3#additional-resources
5/1/2016	2015	LDV/LDT1	0.100	0.020	23,090	1,847	12/31/2015	12/31/2023	12/31/2020	2015 Early Tier 3 FTP Credits earned per 40 CFR 86.1811-17(b)(11); see 2015 LDV/LDT1 spreadsheet. Note that test groups certified to Bin 70 or lower were certified to a 150,000 mile useful life; ref. 86.1811-17-(b)(11)(vii).
Total 2015 Early Credits Remaining:						1,847				

2016 Early Credits:

5/1/2018	2016	LDV/LDT/MDPV	Not Applicable			0	12/31/2016	12/31/2021	12/31/2021	2016 Early FTP Credits from attached EPA Early Credits AB&T work sheet; ref. https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3#additional-resources
5/1/2017	2016	LDV/LDT1	0.093	0.020	51,101	3,730	12/31/2016	12/31/2024	12/31/2021	2016 Early Tier 3 FTP Credits earned per 40 CFR 86.1811-17(b)(11); see 2015 LDV/LDT1 spreadsheet. Note that test groups certified to Bin 70 or lower were certified to a 150,000 mile useful life; ref. 86.1811-17-(b)(11)(vii).
Total 2016 Early Credits Remaining:						3,730				

Total 2015-2016 Early Credits Remaining: 5,577

2017 Credits:

5/1/2018	2017	LDV/LDT/MDPV	Not Applicable			0	12/31/2017	12/31/2025	12/31/2022	2017 Tier 3 FTP Credits from attached EPA Early Credits AB&T work sheet; ref. https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3#additional-resources
5/1/2018	2017	LDV/LDT1	0.073	0.099	250,000	#NAME?	12/31/2017	12/31/2025	12/31/2021	
2/6/2018	2017	Transfer	-	-	-	10,000	12/31/2017	-	-	Purchased 10,000 2017 120K FTP credits from Manufacture B. (Credits were earned on 12/31/2017.)
Total 2017 Credits Remaining:						#NAME?				

2018 Credits:

5/1/2019	2018	LDV/LDT1	-	-	-	0				
2018	Transfer	-	-	-	-	-				
Total 2018 Credits Remaining:						0				

2019 Credits:

5/1/2020	2019	LDV/LDT1	-	-	-	0				
2019	Transfer	-	-	-	-	-				
Total 2019 Credits Remaining:						0				

Grand Total 2015-2019 Credits Remaining: #NAME?

Example Template - Banking & Trading 150K Summary Table- FTP NMOG+NOX

Manufacturer: _____

Date: _____

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Instructions	
Select Model Year:	2017
Select Type of Report:	Final Model Year Report
Select Program:	150k Useful Life
Small Volume?	No

Enter "X" to indicate method used to calculate 2015-2017 Early Credits:	
Method (Check only one)	J. Check one, if applicable:
§86.1811-17(b)(10) & (b)(11)(ix) (e.g. EPA Early Credit Calculator on web)	X
§86.1811-17(b)(11)(ix) & §86.1861; (Compare Bin to §86.1811-17(b)(11) Stds)	

If using the §86.1811-17(b)(10) & (b)(11)(ix) method, enter the results from the EPA Early Credit Calculator on web here:

End of Model Year 2017 credit banks (Early Tier 3 and true Tier 3 credits)

	Fleet Credit or (Debits)			
	Model Year	MY15e	MY16e	MY17e and MY17
Capped / Settled Early Tier 3 bank		372	651	93
Tier 3 bank				100

A. Date of Transaction	B. Model Year	C. Category	Fleet Average Compliance Level			G. Credit (Debit) [Calc from J10, J11, D,E,F]	Date Credits/Debits were earned	Date Credits will expire	Last Date When Credits can be Traded	Comments
			D. Applicable FTP Standards gram/mi	E. Mfr FTP Compliance Level gram/mi	F. Production Volume units					

2015 Early Credits:

5/1/2018	2015	LDV/LDT/MDPV	Not Applicable			372	12/31/2015	12/31/2020	12/31/2020	2015 Early FTP Credits from attached EPA Early Credits AB&T work sheet; ref. https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3/additional-resources 2015 Early Tier 3 FTP Credits earned per 40 CFR 86.1811-17(b)(11); see 2015 LDV/LDT1 spreadsheet. 2015 Early Tier 3 FTP Credits earned per 40 CFR 86.1811-17(b)(11); see 2015 LDT2/HLDT/MDPV spreadsheet.
5/1/2016	2015	LDV/LDT1	0.100	0.020	10,002	0	12/31/2015	12/31/2023	12/31/2020	
5/1/2016	2015	LDT2/HLDT/MDPV	0.119	0.050	1,000	0	12/31/2015	12/31/2023	12/31/2020	
	2015	Transfer								
Total 2015 Early Credits Remaining:						372				

2016 Early Credits:

5/1/2018	2016	LDV/LDT/MDPV	Not Applicable			651	12/31/2016	12/31/2021	12/31/2021	2016 Early Credits from attached EPA Early Credits AB&T work sheet; ref. https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3/additional-resources 2016 Early Tier 3 FTP Credits earned per 40 CFR 86.1811-17(b)(11); see 2016 LDV/LDT1 spreadsheet. 2016 Early Tier 3 FTP Credits earned per 40 CFR 86.1811-17(b)(11); see 2016 LDT2/HLDT/MDPV spreadsheet.
5/1/2017	2016	LDV/LDT1	0.093	0.020	21,784	0	12/31/2016	12/31/2024	12/31/2021	
5/1/2017	2016	LDT2/HLDT/MDPV	0.110	0.050	1,000	0	12/31/2016	12/31/2024	12/31/2021	
	2016	Transfer								
Total 2016 Early Credits Remaining:						651				

2017 Early Credits:

5/1/2018	2017	LDV/LDT/MDPV	Not Applicable			93	12/31/2017	12/31/2022	12/31/2022	2017 Early FTP Credits from attached EPA Early Credits AB&T work sheet; ref. https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3/additional-resources 2017 Early Tier 3 FTP Credits earned per 40 CFR 86.1811-17(b)(11); see separate 2017 HLDT/MDPV spreadsheet.
5/1/2018	2017	HLDT/MDPV	0.101	0.050	1,000	0	12/31/2017	12/31/2022	12/31/2022	
	2017	Transfer								
Total 2017 Early Credits Remaining:						93				

Total 2015-2017 Early Credits Remaining: 1116

2017 Credits:

5/1/2018	2017	LDV/LDT/MDPV	Not Applicable			100	12/31/2017	12/31/2025	12/31/2022	2017 Tier 3 FTP Credits from attached EPA Early Credits AB&T work sheet; ref. https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3/additional-resources LDT2 only Sold 50 2017 150K FTP Credits to Manufacturer C (earned on 12/31/2017).
5/1/2018	2017	LDV/LDT1	0.086	0.052	283,840	0	12/31/2017	12/31/2025	12/31/2022	
5/1/2018	2017	LDT2/HLDT/MDPV	0.101	0.120	70,403	0	12/31/2017	12/31/2025	12/31/2022	
7/4/2018	2017	Transfer				(50)	12/31/2017			
Total 2017 Credits Remaining:						50				

2018 Credits:

5/1/2019	2018	LDV/LDT1				0				
5/1/2019	2018	LDT2/HLDT/MDPV				0				
	2018	Transfer								
Total 2018 Credits Remaining:						0				

2019 Credits:

5/1/2020	2019	LDV/LDT1				0				
5/1/2020	2019	LDT2/HLDT/MDPV				0				
	2019	Transfer								
Total 2019 Credits Remaining:						0				

Grand Total 2015-2019 Credits Remaining: 1166

Example Template - Banking & Trading 120K Summary Table- SFTP NMOG+NOX

Manufacturer: _____

Date: _____

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Select Model Year:	2017
Select Type of Report:	Final Model Year Report
Select Program:	120k Useful Life
Small Volume?	No

A. Date of Trans-action	B. Model Year	C. Category	Fleet Average Compliance Level			G. Credit (Debit) [Calc from D,E,F]	Date Credits/Debits were earned	Date Credits will expire	Last Date When Credits can be Traded	Comments
			D. Applicable SFTP Standards	E. Mfr SFTP Compliance Level	F. Production Volume					

2015 Early Credits:

5/1/2016	2015	LDV/LDT1	0.140	0.050	23,090	2,078	12/31/2015	12/31/2020	12/31/2020	2015 Early Tier 3 SFTP Credits earned per 40 CFR 86.1811-17(b)(11); see 2015 LDV/LDT1 spreadsheet. Note that test groups certified to Bin 70 or lower were certified to a 150,000 mile useful life; ref. 86.1811-17-(b)(11)(vii).
12/31/2017	2015	Transfer	Not Applicable			(2,078)	12/31/2017	-	-	Transferred to 2017 model year
Total 2015 Early Credits Remaining:						0				

2016 Early Credits:

5/1/2017	2016	LDV/LDT1	0.110	0.050	51,101	3,066	12/31/2016	12/31/2021	12/31/2021	2016 Early Tier 3 SFTP Credits earned per 40 CFR 86.1811-17(b)(11); see 2016 LDV/LDT1 spreadsheet. Note that test groups certified to Bin 70 or lower were certified to a 150,000 mile useful life; ref. 86.1811-17-(b)(11)(vii).
12/31/2017	2016	Transfer	-	-	-	(3,066)	12/31/2017	-	-	Transferred to 2017 model year
Total 2016 Early Credits Remaining:						0				

Total 2015-2016 Early Credits Remaining: 0

2017 Credits:

5/1/2018	2017	LDV/LDT1	0.103	#NAME?	210,000	#NAME?	12/31/2017	12/31/2022	12/31/2022	
12/31/2017	2017	Transfer	-	-	-	2,078	12/31/2015	-	-	Transferred from 2015 model year
12/31/2017	2017	Transfer	-	-	-	3,066	12/31/2016	-	-	Transferred from 2016 model year
2/6/2018	2017	Transfer	-	-	-	10,000	12/31/2017	-	-	Purchased 10,000 2017 120K SFTP credits from Manufacture B. (Credits were earned on 12/31/2017.)
Total 2017 Credits Remaining:						#NAME?				

2018 Credits:

5/1/2019	2018	LDV/LDT1				0				
	2018	Transfer	-	-	-			-	-	
Total 2018 Credits Remaining:						0				

2019 Credits:

5/1/2020	2019	LDV/LDT1				0				
	2019	Transfer	-	-	-			-	-	
Total 2019 Credits Remaining:						0				

Grand Total 2015-2019 Credits Remaining: #NAME?

Example Template - Banking & Trading 150K Summary Table- SFTP NMOG+NOX

Manufacturer: _____

Date: _____

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Select Model Year:	2019
Select Type of Report:	Final Model Year Report
Select Program:	150k Useful Life
Small Volume?	No

A. Date of Transaction	B. Model Year	C. Category	Fleet Average Compliance Level			G. Credit (Debit) [Calc from D,E,F]	Date Credits/Debits were earned	Date Credits will expire	Last Date When Credits can be Traded	Comments
			D. Applicable SFTP Standards	E. Mfr SFTP Compliance Level	F. Production Volume					
			gram/mi	gram/mi	units	gram/mi				

2015 Early Credits:

5/1/2016	2015	LDV/LDT/MDPV	0.140	0.061	11,002	869	12/31/2015	12/31/2020	12/31/2020	2015 Early Tier 3 Credits earned per 40 CFR 86.1811-17(b)(11); see LDV/LDT1 and LDT2/HLDT/MDPV spreadsheets.
	2015	Transfer	-	-	-		-	-	-	
Total 2015 Early Credits Remaining:						869				

2016 Early Credits:

5/1/2017	2016	LDV/LDT/MDPV	0.110	0.061	22,784	1,116	12/31/2016	12/31/2021	12/31/2021	2016 Early Tier 3 Credits earned per 40 CFR 86.1811-17(b)(11); see LDV/LDT1 and LDT2/HLDT/MDPV spreadsheets.
	2016	Transfer	-	-	-		-	-	-	
Total 2016 Early Credits Remaining:						1,116				

2017 Early Credits:

5/1/2018	2017	LDT2/HLDT/MDPV	0.103	0.100	1,000	3	12/31/2017	12/31/2025	12/31/2022	2017 Early Tier 3 Credits earned per 40 CFR 86.1811-17(b)(11); see LDT2/HLDT/MDPV spreadsheet.
	2017	Transfer	-	-	-		-	-	-	
Total 2017 Early Credits Remaining:						3				
Total 2015-2017 Early Credits Remaining:						1,988				

2017 Credits:

5/1/2018	2017	LDV/LDT/MDPV	0.103	#NAME?	264,243	#NAME?	12/31/2017	12/31/2025	12/31/2022	LDV, LDT1 and LDT2 only. See 2017 LDV/LDT1 and LDT2/HLDT/MDPV spreadsheets.
7/4/2018	2017	Transfer	-	-	-	(5,000)	12/31/2017	-	-	Sold 5,000 2017 150K SFTP Credits to Manufacturer C (earned on 12/31/2017).
Total 2017 Credits Remaining:						#NAME?				

2018 Credits:

5/1/2019	2018	LDV/LDT/MDPV				0				
	2018	Transfer	-	-	-		-	-	-	
Total 2018 Credits Remaining:						0				

2019 Credits:

5/1/2020	2019	LDV/LDT/MDPV				0				
	2019	Transfer	-	-	-		-	-	-	
Total 2019 Credits Remaining:						0				

Grand Total 2015-2019 Credits Remaining: #NAME?