

**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 AB&T provisions 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 86.1805-17(g) 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	9,851
SFTP (NMOG+NOx)				SFTP 150K Fleet Average Credits or Debits are calculated for all LDVs, LDTs, MDPVs on the "LDT1_HLDT_MDPV" Tab.

Instructions

Select Model Year:	2017
Small Volume under 86.1821-17(h)(3)?	No

Test Group	Bin (NMOG + NOx)	SFTP NMOG + NOx FEL standard	Test Group Useful Life 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)	50-State Direct Ozone Reduction (DOR) (LEV 3 reqs)	If yes to DOR, CARB Approved Level	Production (50-State)	Comments	FTP NMOG + NOx standard	Actual FTP NMOG + NOx Standard Level [Derived from columns G, H, L, L]	FTP Production x Bin	SFTP Production x Bin	FTP Intermediate calculation	SFTP Intermediate calculation
		[Column B Bin x 0.001]									[Column B Bin x 0.001]	[Columns J x M]	[Columns J x C]			
		g/mi	x1000 Mi	(x 1000 Miles)	(x 1000 Miles)	Y or N	Y or N	g/mi	# of Units		g/mi	g/mi	g/mi	g/mi		
A	160	0.160	120	150	150	Yes	No		39,458	Bin 160 120K Useful Life (included in 150K FTP & SFTP Averaging sets); [Formatted comments field cells to "wrap text" as shown in example comments for this cell]	0.160	0.155	6115.99	6313.28	0.021547315389	0.023891947941857
B	125	0.130	120	150	150	No	No		20,363		0.130	0.125	2547.75	2649.66	0.02897160760990	0.010227381178913
C	20	0.020	150	150	150	Yes	Yes	0.005	45,000		0.020	0.019	450	900	0.0015364022250	0.003406955881511
D	50	0.050	150	150	150	No	No		79,000		0.050	0.050	3950	3950	0.01391625908681	0.014948361924441
E	4	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(b)(4)(ii)(C)	0.020	0.020	1800	0	0.0063416009019	0
G	160	0.140	120	120	120	No	No		120,000		0.140	0.150	16200	16800	0.01768	0.02788
H	30	0.140	120	120	120	No	No		90,000		0.050	0.050	4500	12000	0.01166	0.036
I	70	N/A	120	120	N/A	No	No		40,000	Meets CARB Stand alone SFTP standards ref. 86.1811-17(b)(4)(ii)(C)	0.070	0.070	2800	0	0.0112	0























## 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)(iv) & §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					

**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. <a href="https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3/additional-resources">https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3/additional-resources</a>
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).
<b>Total 2015 Early Credits Remaining:</b>						<b>1,847</b>				

**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. <a href="https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3/additional-resources">https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3/additional-resources</a>
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).
<b>Total 2016 Early Credits Remaining:</b>						<b>3,730</b>				

**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. <a href="https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3/additional-resources">https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3/additional-resources</a>
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.)
<b>Total 2017 Credits Remaining:</b>						<b>#NAME?</b>				

**2018 Credits:**

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

**2019 Credits:**

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

**Grand Total 2015-2019 Credits Remaining: #NAME?**

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

**Manufacturer:** \_\_\_\_\_

**Date:** \_\_\_\_\_

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<b>Instructions</b>	
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:	
<b>Method (Check only one)</b>	<b>J. Check one, if applicable:</b>
§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. <a href="https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3#additional-resources">https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3#additional-resources</a>
5/1/2016	2015	LDV/LDT1	0.100	0.020	10,002	0	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.
5/1/2016	2015	LDT2/HLDT/MDPV	0.119	0.050	1,000	0	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 LDT2/HLDT/MDPV spreadsheet.
	2015	Transfer								
<b>Total 2015 Early Credits Remaining:</b>						<b>372</b>				

**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. <a href="https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3#additional-resources">https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3#additional-resources</a>
5/1/2017	2016	LDV/LDT1	0.093	0.020	21,784	0	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 2016 LDV/LDT1 spreadsheet.
5/1/2017	2016	LDT2/HLDT/MDPV	0.110	0.050	1,000	0	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 2016 LDT2/HLDT/MDPV spreadsheet.
	2016	Transfer								
<b>Total 2016 Early Credits Remaining:</b>						<b>651</b>				

**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. <a href="https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3#additional-resources">https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3#additional-resources</a>
5/1/2018	2017	HLDT/MDPV	0.101	0.050	1,000	0	12/31/2017	12/31/2022	12/31/2022	2017 Early Tier 3 FTP Credits earned per 40 CFR 86.1811-17(b)(11); see separate 2017 HLDT/MDPV spreadsheet.
	2017	Transfer								
<b>Total 2017 Early Credits Remaining:</b>						<b>93</b>				

**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. <a href="https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3#additional-resources">https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-control-air-pollution-motor-vehicles-tier-3#additional-resources</a>
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	LDT2 only
7/4/2018	2017	Transfer				(50)	12/31/2017			Sold 50 2017 150K FTP Credits to Manufacturer C (earned on 12/31/2017).
<b>Total 2017 Credits Remaining:</b>						<b>50</b>				

**2018 Credits:**

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

**2019 Credits:**

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

**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] gram/mi	Date Credits/ Debits were earned	Date Credits will expire	Last Date When Credits can be Traded	Comments
			D. Applicable SFTP Standards gram/mi	E. Mfr SFTP Compliance Level gram/mi	F. Production Volume units					

**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
<b>Total 2015 Early Credits Remaining:</b>						<b>0</b>				

**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
<b>Total 2016 Early Credits Remaining:</b>						<b>0</b>				

**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.)
<b>Total 2017 Credits Remaining:</b>						<b>#NAME?</b>				

**2018 Credits:**

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

**2019 Credits:**

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

**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 Trans-action	B. Model Year	C. Category	Fleet Average Compliance Level			G. Credit (Debit) [Calc from D,E,F] gram/mi	Date Credits/ Debits were earned	Date Credits will expire	Last Date When Credits can be Traded	Comments
			D. Applicable SFTP Standards gram/mi	E. Mfr SFTP Compliance Level gram/mi	F. Production Volume units					
<b>2015 Early Credits:</b>										
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	-	-	-	-	-	-	-	
<b>Total 2015 Early Credits Remaining:</b>						<b>869</b>				
<b>2016 Early Credits:</b>										
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	-	-	-	-	-	-	-	
<b>Total 2016 Early Credits Remaining:</b>						<b>1,116</b>				
<b>2017 Early Credits:</b>										
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	-	-	-	-	-	-	-	
<b>Total 2017 Early Credits Remaining:</b>						<b>3</b>				
<b>Total 2015-2017 Early Credits Remaining:</b>						<b>1,988</b>				
<b>2017 Credits:</b>										
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).
<b>Total 2017 Credits Remaining:</b>						<b>#NAME?</b>				
<b>2018 Credits:</b>										
5/1/2019	2018	LDV/LDT/MDPV				0				
	2018	Transfer	-	-	-	-	-	-	-	
<b>Total 2018 Credits Remaining:</b>						<b>0</b>				
<b>2019 Credits:</b>										
5/1/2020	2019	LDV/LDT/MDPV				0				
	2019	Transfer	-	-	-	-	-	-	-	
<b>Total 2019 Credits Remaining:</b>						<b>0</b>				
<b>Grand Total 2015-2019 Credits Remaining:</b>						<b>#NAME?</b>				