

United States Environmental Protection Agency Office of Transportation and Air Quality

Manufacturer Averaging, Banking, and Trading Report for Heavy-Duty Highway Gasoline Engines and Vehicles

Last Revision: August 2010 Version Number: 2.3

Heavy Duty Highwa	v Gasoline HDE/HDV ABT Temi	plate (Credit Calculations)) - MY 2007 and Aft
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Submission Date:

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Averaging San Accountable Control Contro	Model Year:				1					-		1	ı		Credit 11	ransters (Prog	jram Options 1 &	i 2 Only)	
10 10 10 10 10 10 10 10 10 10 10 10 10 1	Engine Family	Averaging Set	Accrual of	Weight Class	(NOx, NMHC+NOx.	FEL	Useful Life (miles)	Cycle Conversion	"ABT Only" Sales (units)	Manufacturer Owned" or "Offset" Sales	Applicable Standard	Standard and FEL (g/bhp-hr or	Non-ABT Credit Balance	ABT-Only Credit Balance	Approved Conversion Factor	# ABT-only Credits to Convert	Credits transferred to	transferred to	ABT-Only Credit Balance After Transfer
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ABT-Only Credits	NOx/NMHC+N	Ox (Phase-out)	NOx (Pl	nase-in)	NMHC (F	hase-in)
	HDE	HDV	HDE	HDV	HDE	HDV
Current MY Deficit	0.0	0.0				
Current MY Credits available for Averaging			0.0	0.0	0.0	0.0
(FEL > trigger: 10% discount applied before banking or trading.)	0.0	0.0				
(FEL < trigger: No discount applied before banking or trading.)	0.0	0.0				
Transfer credits gained	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL CREDITS AVAILABLE FOR AVERAGING	0.0	0.0	0.0	0.0	0.0	0.0

	HDE	HDV
Phase-in Percentage (MY 2008 only)	0.00%	0.00%
Total Offsets Accrued to date		
Total Offsets Used in Current MY (MY 2008 and 2009 only)	0.0	0.0

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he public reporting and recordkeeping burden for this collection of information is estimated to average 8 hourbic per response. Send comments on the Agency's need for this information, the accuracy of the rovided burden estimates, and any suggested methods for minimizing respondent burden, including
rrough the use of automated collection techniques to the Director, Collection Strategies Division, U.S. nvironmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include ne OMB control number (2060-0287) in any correspondence. Do not send the completed form to this

OMB No. 2060-0287 Approval Expires on 03/31/2023 EPA Form 5900-134 TOTAL OFFSETS 0.0 0.0



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Heavy Duty Highway Gasoline HDE/HDV ABT Template (Averaging and Summary)

Model Yea	ar: Manufacturer:			Averag	jing Set			
	XYZ manufacturer		NOx (Phase-out)		Phase-in)	NMHC (Phase-in)		
		HDE	HDV	HDE	HDV	HDE	HDV	
Deficit:								
	Current MY Deficit	0.0	0.0					
Credit Balan	ces before Averaging:							
	Current MY credits acquired via trading activity							
	Carryover credits banked from prior model years							
	Current MY Credits from transfer (HDE ↔ HDV)	0.0	0.0	0.0	0.0	0.0	0.0	
	Current MY Credits			0.0	0.0	0.0	0.0	
	Current MY Credits (FEL > trigger: 10% discount before banking or trading.)	0.0	0.0					
	Current MY Credits (FEL < trigger: No discount.)	0.0	0.0					
Credit Usag	e and Averaging:							
	Apply credits acquired via trade							
	Apply carryover credits							
	Apply NMHC+NOx credits to NOx credit balance (HDE only)							
	Apply Current MY Credits from transfer (HDE ↔ HDV)							
	Apply Current MY Credits (FEL > trigger)							
	Apply Current MY Credits (FEL < trigger)							
Credit Sumn	nary after Averaging:							
	Current MY Deficit	0.0	0.0					
	Carryover credit balance	0.0	0.0	0.0	0.0	0.0	0.0	
	Current MY credit bal. (FEL > trigger)	0.0	0.0					
	Discount Amount (10%)	0.0	0.0					
	Current MY credit bal. (FEL > trigger) after discount	0.0	0.0					
	Current MY credit bal. (FEL < trigger)	0.0	0.0					
	Current MY Credits for Banking/Trading	0.0	0.0	0.0	0.0	0.0	0.0	
	Total Credit Balance after Averaging	0.0	0.0	0.0	0.0	0.0	0.0	

^{***} Please make sure you have Automatic Calculations turned ON. [Tools --> Options --> Calculation tab. Select the 'Automatic' radio button]

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Heavy-

Field Descriptions for Credit Calculations-Current MY

FIELDS (for Credit Calculation - Current MY) Program Option	NOTES Enter the Program Option which you are using to certify. Option 1
Program Option	participants committed to the program in the 2003 model year. Option 2 and Option 3 participants begin participation in model years 2004 and 2005 respectively.
Model Year	Enter the model year for which credits are being calculated.
Engine Family	Enter the 12-character engine family name or test group name.
Averaging Set	Select the averaging set for the associated engine family. Choose 'Engine (phase-out),' 'Engine (phase-in),' 'Vehicle (phase-out),' or 'Vehicle (phase-in)' from the dropdown list.
Use or Accrual of Early Compliance Offsets?	If the engine family will result in accrued Offsets (MY 2007 and prior only), select 'Accrual' or 'Accrual-2X.' The 'Accrual-2X' option should be selected only if the engine family is certified to the voluntary standards for HDEs or HDVs. Select 'Use' if the engine family requires the use of existing Offsets for compliance purposes (MY 2008 and 2009 only). Select 'NIA (ABT)' if Offsets will not be accrue or used. Engine families must have an entry of 'NIA (ABT)' in this column to allow for the calculation of ABT credits.
Weight Class	For engine families associated with a HDV averaging set, select the applicable weight class.
Parameter (NOx, NMHC+NOx, or NMHC)	Select the applicable parameter from the drop-down menu.
FEL	Enter the NOx or NMHC+NOx FEL for the engine family.
Useful Life (miles)	Enter the allowable useful life for the engine family (in miles)
Transient Cycle Conversion Factor	For engine families associated with an HDE averaging set, insert the applicable transient cycle conversion factor as defined at 40 CFR 86.004-15(c)(2) and 86.094-15(c)(2). Note that for HDV averaging sets, this value should be entered as 1.0, to ensure that the associated credit calculation is not affected.
"ABT Only" Sales (units)	Enter the number of engines produced for U.S. sale within the given engine family during the model year that will be used to generate AB credits.
"Non Manufacturer Owned" or "Offset" Sales (units)	Enter the number of engines produced for U.S. sale within the given engine family during the model year that will be used to generate normanufacturer owned credits or Offsets.
Applicable Standard	The applicable standard will be automatically displayed in this field depending on the averaging set and parameter selected.
Units for Standard and FEL (g/bhp-hr or g/mile)	The applicable units will be automatically displayed in this field depending on the averaging set and parameter selected.
Non-ABT Credit Balance	The credit balance will be automatically calculated and displayed in this field based on the FEL, useful life, non-manufacturer owned sales, and the applicable standard.
ABT-Only Credit Balance	The credit balance will be automatically calculated and displayed in this field based on the FEL, useful life, ABT-only sales, and the applicable standard.
Approved Conversion Factor	Enter the pre-approved conversion factor that is used to convert between chassis-based credits (derived on a grams per mile basis) and equivalent engine-based credits (derived on a grams per brake horsepower-hour basis)
# ABT-only Credits to Convert	Enter the number of HDV or HDE credits you wish to transfer (convert) to HDE or HDV credits respectively. Transferred credits must be used in the current model year.
# ABT-only Credits transferred to HDE	This is a calculated value. If any credits are entered in column P tha are associated with an HDV engine family, the resulting number of transferred HDE credits are shown.
ABT-only Credits transferred to HDV	This is a calculated value. If any credits are entered in column P for an HDE engine family, the resulting number of transferred HDV credits are shown.
ABT-Only Credit Balance After Transfer	This is a calculated value that displays column N, modified to reflect any credit transfers.
Messages	Messages will appear in this field if there are any inconsistencies or problems associated with the engine family data that would preclude the calculation of ABT credits (e.g., FEL cap exceeded) or the use/accrual of Offsets.

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