

Appendix O

On-Road VIP Funding Matrix for Retrofits

**Mail-Out #MSC 15-28
ATTACHMENT 1**

Engine Model Year	LHD and MHD GVWR = 14,001 to 33,000 lbs			HHD GVWR = 33,001 lbs or more		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
	2002 and older	19,000	1,900	\$1,000	12,000	1,900
36,000		3,600	\$2,000	23,000	3,700	\$2,000
54,000		5,300	\$3,000	34,000	5,400	\$3,000
71,000		7,000	\$4,000	45,000	7,100	\$4,000
89,000		8,700	\$5,000	55,000	8,700	\$5,000
				66,000	10,400	\$6,000
				77,000	12,100	\$7,000
				88,000	13,800	\$8,000
2003-2006	26,000	2,600	\$1,000	17,000	2,700	\$1,000
	52,000	5,100	\$2,000	32,000	5,100	\$2,000
	77,000	7,500	\$3,000	48,000	7,600	\$3,000
				64,000	10,100	\$4,000
				79,000	12,400	\$5,000
				95,000	14,900	\$6,000

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Engine Model Year	LHD and MHD GVWR = 14,001 to 33,000 lbs			HHD GVWR = 33,001 lbs or more		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
	2002 and older	10,000	1,000	\$1,000	6,000	1,000
19,000		1,900	\$2,000	12,000	1,900	\$2,000
28,000		2,800	\$3,000	17,000	2,700	\$3,000
37,000		3,600	\$4,000	23,000	3,700	\$4,000
45,000		4,400	\$5,000	28,000	4,400	\$5,000
54,000		5,300	\$6,000	34,000	5,400	\$6,000
63,000		6,200	\$7,000	39,000	6,200	\$7,000
72,000		7,100	\$8,000	45,000	7,100	\$8,000
81,000		7,900	\$9,000	50,000	7,900	\$9,000
	90,000	8,800	\$10,000	56,000	8,800	\$10,000
2003-2006	14,000	1,400	\$1,000	9,000	1,500	\$1,000
	27,000	2,700	\$2,000	17,000	2,700	\$2,000
	39,000	3,800	\$3,000	25,000	4,000	\$3,000
	52,000	5,100	\$4,000	33,000	5,200	\$4,000
	65,000	6,400	\$5,000	41,000	6,500	\$5,000
	78,000	7,600	\$6,000	48,000	7,600	\$6,000
	90,000	8,800	\$7,000	56,000	8,800	\$7,000
				64,000	10,100	\$8,000
				72,000	11,300	\$9,000
			80,000	12,600	\$10,000	

**Mail-Out #MSC 15-28
ATTACHMENT 1**

Engine Model Year	LHD and MHD GVWR = 14,001 to 33,000 lbs		HHD GVWR = 33,001 lbs or more			
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
	2002 and older	7,000	700	\$1,000	5,000	800
13,000		1,300	\$2,000	8,000	1,300	\$2,000
19,000		1,900	\$3,000	12,000	1,900	\$3,000
25,000		2,500	\$4,000	16,000	2,600	\$4,000
31,000		3,100	\$5,000	20,000	3,200	\$5,000
37,000		3,600	\$6,000	23,000	3,700	\$6,000
43,000		4,200	\$7,000	27,000	4,300	\$7,000
49,000		4,800	\$8,000	31,000	4,900	\$8,000
55,000		5,400	\$9,000	34,000	5,400	\$9,000
61,000	6,000	\$10,000	38,000	6,000	\$10,000	
2003-2006	10,000	1,000	\$1,000	6,000	1,000	\$1,000
	18,000	1,800	\$2,000	12,000	1,900	\$2,000
	27,000	2,700	\$3,000	17,000	2,700	\$3,000
	35,000	3,500	\$4,000	22,000	3,500	\$4,000
	44,000	4,300	\$5,000	28,000	4,400	\$5,000
	53,000	5,200	\$6,000	33,000	5,200	\$6,000
	61,000	6,000	\$7,000	38,000	6,000	\$7,000
	70,000	6,900	\$8,000	44,000	6,900	\$8,000
	78,000	7,600	\$9,000	49,000	7,700	\$9,000
87,000	8,500	\$10,000	54,000	8,500	\$10,000	

Appendix P

On-Road VIP Funding Matrix for Truck Replacements

**Mail-Out #MSC 15-28
ATTACHMENT 1**

Table P-1A: Light Heavy-Duty (GVWR = 14,001 to 19,500 lbs)

- Fleets of 1-10 trucks
- Replacement vehicles delivered and post inspected by December 31, 2016
- Fleet must be compliant; TRUCRS or applicable compliance documentation in Section C.1.(C) (ENGINE MODEL YEAR SCHEDULE ONLY)

NEW REPLACEMENT						
Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
1998 No Truck and Bus Regulatory compliance due before January 1, 2018	24,000	2,300	\$5,000	26,000	2,500	\$5,000
	48,000	4,600	\$10,000	51,000	5,000	\$10,000
	71,000	6,900	\$15,000			
	95,000	9,200	\$20,000			
1999 No Truck and Bus Regulatory compliance due before January 1, 2019	12,000	1,200	\$5,000	13,000	1,300	\$5,000
	24,000	2,400	\$10,000	26,000	2,500	\$10,000
	36,000	3,500	\$15,000			
	48,000	4,700	\$20,000			
2000-2002 No Truck and Bus Regulatory compliance due before January 1, 2020	9,000	800	\$5,000	9,000	900	\$5,000
	17,000	1,600	\$10,000	18,000	1,700	\$10,000
	25,000	2,400	\$15,000			
	33,000	3,200	\$20,000			
2003-2006 No Truck and Bus Regulatory compliance due before January 1, 2020	13,000	1,300	\$5,000			
	26,000	2,500	\$10,000			
	39,000	3,800	\$15,000			
	52,000	5,000	\$20,000			
USED REPLACEMENT						
Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
1998 No Truck and Bus Regulatory compliance due before January 1, 2018	24,000	2,300	\$5,000	26,000	2,500	\$5,000
	48,000	4,600	\$10,000			
1999 No Truck and Bus Regulatory compliance due before January 1, 2019	12,000	1,200	\$5,000	13,000	1,300	\$5,000
	24,000	2,400	\$10,000			
2000-2002 No Truck and Bus Regulatory compliance due before January 1, 2020	9,000	800	\$5,000	9,000	900	\$5,000
	17,000	1,600	\$10,000			
2003-2006 No Truck and Bus Regulatory compliance due before January 1, 2020	13,000	1,300	\$5,000			
	26,000	2,500	\$10,000			

**Mail-Out #MSC 15-28
ATTACHMENT 1**

Table P-1B: Light And Medium Heavy-Duty (GVWR = 14,001 to 26,000 lbs)

- Fleets of 1-10 trucks
- Replacement vehicles delivered and post inspected by December 31, 2016
- No Truck and Bus Regulatory 2010 std. compliance date before January 1, 2020
- Must show current compliance and reported TRUCRS compliance option
(ENGINE MODEL YEAR SCHEDULE NOT ELIGIBLE)

NEW REPLACEMENT						
Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
≤ 1990	9,000	900	\$5,000	9,000	1,000	\$5,000
	17,000	1,700	\$10,000	18,000	1,900	\$10,000
	25,000	2,600	\$15,000			
	33,000	3,400	\$20,000			
1991-1997	12,000	1,200	\$5,000	13,000	1,300	\$5,000
	24,000	2,300	\$10,000	26,000	2,600	\$10,000
	35,000	3,400	\$15,000			
	47,000	4,600	\$20,000			
USED REPLACEMENT						
Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
≤ 1990	9,000	900	\$5,000	9,000	1,000	\$5,000
	17,000	1,700	\$10,000			
1991-1997	12,000	1,200	\$5,000	13,000	1,300	\$5,000
	24,000	2,300	\$10,000			

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ATTACHMENT 1**

Table P-2A: Medium Heavy-Duty (GVWR = 19,501 to 26,000 lbs)						
<ul style="list-style-type: none"> • Fleets of 1-10 trucks • Replacement vehicles delivered and post inspected by December 31, 2016 • Fleet must be compliant; TRUCRS or applicable compliance documentation in Section C.1.(C) (ENGINE MODEL YEAR SCHEDULE ONLY) 						
NEW REPLACEMENT						
Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
1998 No Truck and Bus Regulatory compliance due before January 1, 2018	48,000	4,600	\$10,000	51,000	5,000	\$10,000
	71,000	6,900	\$15,000	76,000	7,400	\$15,000
	95,000	9,200	\$20,000			
1999 No Truck and Bus Regulatory compliance due before January 1, 2019	24,000	2,400	\$10,000	26,000	2,500	\$10,000
	36,000	3,500	\$15,000	39,000	3,800	\$15,000
	48,000	4,700	\$20,000			
2000-2002 No Truck and Bus Regulatory compliance due before January 1, 2020	17,000	1,600	\$10,000	18,000	1,700	\$10,000
	25,000	2,400	\$15,000	26,000	2,600	\$15,000
	33,000	3,200	\$20,000			
	41,000	3,900	\$25,000			
2003-2006 No Truck and Bus Regulatory compliance due before January 1, 2020	26,000	2,500	\$10,000			
	39,000	3,800	\$15,000			
	52,000	5,000	\$20,000			
	65,000	6,300	\$25,000			

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ATTACHMENT 1**

Table P-2B: Medium Heavy-Duty (GVWR = 19,501 to 26,000 lbs)

- Fleets of 1-10 trucks
- Replacement vehicles delivered and post inspected by December 31, 2016
- Fleet must be compliant; TRUCRS or applicable compliance documentation in Section C.1.(C)
(ENGINE MODEL YEAR SCHEDULE ONLY)

USED REPLACEMENT

Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner			1.20 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons		Miles	Gallons	
1998 No Truck and Bus Regulatory compliance due before January 1, 2018	48,000	4,600	\$10,000	51,000	5,000	\$10,000	62,000	6,000	\$10,000
	71,000	6,900	\$15,000						
1999 No Truck and Bus Regulatory compliance due before January 1, 2019	24,000	2,400	\$10,000	26,000	2,500	\$10,000	31,000	3,100	\$10,000
	36,000	3,500	\$15,000						
2000-2002 No Truck and Bus Regulatory compliance due before January 1, 2020	17,000	1,600	\$10,000	18,000	1,700	\$10,000	21,000	2,100	\$10,000
	25,000	2,400	\$15,000						
2003-2006 No Truck and Bus Regulatory compliance due before January 1, 2020	26,000	2,500	\$10,000						
	39,000	3,800	\$15,000						

**Mail-Out #MSC 15-28
ATTACHMENT 1**

Table P-3A: Medium Heavy-Duty (GVWR = 26,001 to 33,000 lbs)

- Fleets of 1-10 Trucks
- No Truck and Bus Regulatory 2010 Std. Compliance Date Before January 1, 2020
- Replacement Vehicles Delivered and Post-inspected by December 31, 2016
- **MUST SHOW CURRENT COMPLIANCE AND REPORTED TRUCRS COMPLIANCE OPTION, IF APPLICABLE (Engine Model Year Schedule eligible if truck is filtered)**

NEW REPLACEMENT

Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
<= 1990	17,000	1,700	\$10,000	18,000	1,900	\$10,000
	25,000	2,600	\$15,000	27,000	2,800	\$15,000
	33,000	3,400	\$20,000	36,000	3,700	\$20,000
	41,000	4,200	\$25,000	44,000	4,600	\$25,000
	49,000	5,100	\$30,000			
	58,000	5,900	\$35,000			
1991-1993	23,000	2,300	\$10,000	26,000	2,500	\$10,000
	35,000	3,400	\$15,000	38,000	3,700	\$15,000
	46,000	4,500	\$20,000	51,000	4,900	\$20,000
	57,000	5,600	\$25,000	63,000	6,200	\$25,000
	69,000	6,700	\$30,000			
	80,000	7,800	\$35,000			
1994-2002	24,000	2,400	\$10,000	27,000	2,600	\$10,000
	36,000	3,500	\$15,000	40,000	3,900	\$15,000
	48,000	4,700	\$20,000	53,000	5,200	\$20,000
	60,000	5,800	\$25,000	67,000	6,500	\$25,000
	72,000	7,000	\$30,000			
	83,000	8,100	\$35,000			
2003-2006	38,000	3,700	\$10,000			
	57,000	5,500	\$15,000			
	75,000	7,300	\$20,000			
	94,000	9,100	\$25,000			

**Mail-Out #MSC 15-28
ATTACHMENT 1**

Table P-3B: Medium Heavy-Duty (GVWR = 26,001 to 33,000 lbs)

- Fleets of 1-10 Trucks
- No Truck and Bus Regulatory 2010 Std. Compliance Date Before January 1, 2020
- Replacement Vehicles Delivered and Post-inspected by December 31, 2016
- **MUST SHOW CURRENT COMPLIANCE AND REPORTED TRUCRS COMPLIANCE OPTION, IF APPLICABLE**
(Engine Model Year Schedule eligible if truck is filtered)

USED REPLACEMENT

Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner			1.20 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons		Miles	Gallons	
<= 1990	17,000	1,700	\$10,000	18,000	1,900	\$10,000	22,000	2,200	\$10,000
	25,000	2,600	\$15,000	27,000	2,800	\$15,000	32,000	3,300	\$15,000
	33,000	3,400	\$20,000	36,000	3,700	\$20,000			
	41,000	4,200	\$25,000						
1991-1993	23,000	2,300	\$10,000	26,000	2,500	\$10,000	34,000	3,300	\$10,000
	35,000	3,400	\$15,000	38,000	3,700	\$15,000	51,000	5,000	\$15,000
	46,000	4,500	\$20,000	51,000	4,900	\$20,000			
	57,000	5,600	\$25,000						
1994-2002	24,000	2,400	\$10,000	27,000	2,600	\$10,000	36,000	3,500	\$10,000
	36,000	3,500	\$15,000	40,000	3,900	\$15,000	54,000	5,300	\$15,000
	48,000	4,700	\$20,000	53,000	5,200	\$20,000			
	60,000	5,800	\$25,000						
2003-2006	38,000	3,700	\$10,000						
	57,000	5,500	\$15,000						
	75,000	7,300	\$20,000						

**Mail-Out #MSC 15-28
ATTACHMENT 1**

Table P-4A: Heavy Heavy-Duty (GVWR = 33,001 lbs or more)

- Fleets of 1-10 trucks
- No Truck and Bus Regulatory 2010 std. compliance date before January 1, 2020
- Replacement vehicles delivered and post inspected by December 31, 2016
- **MUST SHOW CURRENT COMPLIANCE AND REPORTED TRUCRS COMPLIANCE OPTION, IF APPLICABLE**
(Engine Model Year Schedule eligible if truck is filtered)

NEW REPLACEMENT

Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons	
<= 1990	12,000	1,900	\$10,000	13,000	2,100	\$10,000
	17,000	2,900	\$15,000	19,000	3,100	\$15,000
	23,000	3,800	\$20,000	25,000	4,100	\$20,000
	29,000	4,800	\$25,000	31,000	5,200	\$25,000
	34,000	5,700	\$30,000	37,000	6,200	\$30,000
	40,000	6,600	\$35,000	43,000	7,200	\$35,000
	45,000	7,600	\$40,000			
1991-1993	51,000	8,500	\$45,000			
	14,000	2,200	\$10,000	15,000	2,400	\$10,000
	20,000	3,300	\$15,000	22,000	3,600	\$15,000
	27,000	4,300	\$20,000	30,000	4,800	\$20,000
	34,000	5,400	\$25,000	37,000	6,000	\$25,000
	40,000	6,500	\$30,000	44,000	7,200	\$30,000
	47,000	7,600	\$35,000	52,000	8,300	\$35,000
1994-2002	53,000	8,600	\$40,000			
	60,000	9,700	\$45,000			
	14,000	2,200	\$10,000	16,000	2,500	\$10,000
	21,000	3,300	\$15,000	24,000	3,700	\$15,000
	28,000	4,400	\$20,000	31,000	4,900	\$20,000
	35,000	5,500	\$25,000	39,000	6,100	\$25,000
	42,000	6,600	\$30,000	47,000	7,300	\$30,000
2003-2006	49,000	7,700	\$35,000	54,000	8,500	\$35,000
	56,000	8,700	\$40,000			
	63,000	9,800	\$45,000			
	22,000	3,500	\$10,000			
	33,000	5,200	\$15,000			
	44,000	6,900	\$20,000			
	55,000	8,700	\$25,000			
66,000	10,400	\$30,000				
77,000	12,100	\$35,000				
88,000	13,800	\$40,000				
99,000	15,600	\$45,000				

**Mail-Out #MSC 15-28
ATTACHMENT 1**

Table P-4B: Heavy Heavy-Duty (GVWR = 33,001 lbs or more)

- Fleets of 1-10 trucks
- No Truck and Bus Regulatory 2010 std. compliance date before January 1, 2020
- Replacement vehicles delivered and post inspected by December 31, 2016
- **MUST SHOW CURRENT COMPLIANCE AND REPORTED TRUCRS COMPLIANCE OPTION, IF APPLICABLE**
- (Engine Model Year Schedule eligible if truck is filtered)

USED REPLACEMENT

Engine Model Year	0.20 g/bhp-hr NOx Standard or Cleaner			0.50 g/bhp-hr NOx Standard or Cleaner			1.20 g/bhp-hr NOx Standard or Cleaner		
	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount	Minimum Annual Usage		Funding Amount
	Miles	Gallons		Miles	Gallons		Miles	Gallons	
<= 1990	12,000	1,900	\$10,000	13,000	2,100	\$10,000	16,000	2,600	\$10,000
	17,000	2,900	\$15,000	19,000	3,100	\$15,000	23,000	3,900	\$15,000
	23,000	3,800	\$20,000	25,000	4,100	\$20,000	31,000	5,200	\$20,000
	29,000	4,800	\$25,000	31,000	5,200	\$25,000			
	34,000	5,700	\$30,000	37,000	6,200	\$30,000			
	40,000	6,600	\$35,000						
1991-1993	14,000	2,200	\$10,000	15,000	2,400	\$10,000	20,000	3,200	\$10,000
	20,000	3,300	\$15,000	22,000	3,600	\$15,000	29,000	4,700	\$15,000
	27,000	4,300	\$20,000	30,000	4,800	\$20,000	39,000	6,300	\$20,000
	34,000	5,400	\$25,000	37,000	6,000	\$25,000			
	40,000	6,500	\$30,000	44,000	7,200	\$30,000			
	47,000	7,600	\$35,000						
1994-2002	14,000	2,200	\$10,000	16,000	2,500	\$10,000	21,000	3,300	\$10,000
	21,000	3,300	\$15,000	24,000	3,700	\$15,000	31,000	4,900	\$15,000
	28,000	4,400	\$20,000	31,000	4,900	\$20,000	42,000	6,500	\$20,000
	35,000	5,500	\$25,000	39,000	6,100	\$25,000			
	42,000	6,600	\$30,000	47,000	7,300	\$30,000			
	49,000	7,700	\$35,000						
2003-2006	22,000	3,500	\$10,000						
	33,000	5,200	\$15,000						
	44,000	6,900	\$20,000						
	55,000	8,700	\$25,000						
	66,000	10,400	\$30,000						
	77,000	12,100	\$35,000						