



August 11, 2017

Administrator
National Highway Traffic Safety Administration
1200 New Jersey Avenue, SW
West Building
Washington, DC 20590

Regarding: Volvo Car USA, LLC's 2017 Mid-Model Year Automotive Fuel Economy Report

Pursuant to the requirements set forth in 49 USC Section 32907 (a), Volvo Car USA, LLC (Volvo) hereby submits its 2017 Mid-Model Year Automotive Fuel Economy Report as described in 49 CFR §537. This letter and attachments comprise Volvo's report.

Attachments I (Passenger Car) and II (Light Duty Truck) contain required fuel economy information for those model types and vehicle configurations certified by EPA as of August 07, 2017. This submission utilizes projected sales based on Volvo's 2017 model year latest production plans and already produced 2017 model year vehicles. Estimated CAFE values for Volvo passenger cars include the CAFE adjustment factor in accordance with 40 CFR §600.510-12(e), using a "c" factor of 0.0014 provided by the Environmental Protection Agency (EPA).

The estimated CAFE figures in this report do not include any Fuel Consumption improvement credits as allowed under 40 CFR Part 600 Subpart F, Section 600.510-12(c)(3). It is Volvo's intention to include Air Conditioning credits and possibly Off Cycle technology credits in the final Model Year report.

This report has been prepared by Mr Per-Anders Lennvi, Volvo Car Corporation Sweden. If you have any questions on this submission please do not hesitate to contact Mr Per-Anders Lennvi, at +46-31-3255647, email per-anders.lennvi@volvocars.com or Mr Gregory Buffalino of our New Jersey office at 201-281-8714, email gregory.buffalino@volvocars.com.

Drive Safely,

VOLVO CARS USA, LLC

A handwritten signature in black ink, appearing to read "Chris Dauerer".

Chris Dauerer, Vice President
Quality & Customer Satisfaction



Volvo Car USA, LLC

2017 Mid-Model Year Automotive Fuel Economy Report

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Attachment I

Passenger Car Fuel Economy Information



CAFE - US Cars Model Type Summary / CAFE Status

Carline Name	Vehicle Class	Engine Name	Transmission Class	IWC	Tire Size	Wheelbase	Front Axle Track Width	Rear Axle Track Width	Average Track Width	Footprint	Projected Sales	City	Highway	MH	MH Rounded
S60	Compact Car	2.0T	S8F	4000	235/40 R18	109,3	62,0	61,7	61,8	46,9	1714	32,7323	52,1375	39,3174	39,3
S60	Compact Car	2.0T	S8F	4000	235/45 R18	109,3	62,0	61,7	61,8	46,9	1193	32,7323	52,1375	39,3174	39,3
S60	Compact Car	2.0T	S8F	4000	235/40 R19	109,3	62,0	61,7	61,8	46,9	285	32,7323	52,1375	39,3174	39,3
V60	Small Station Wagon	2.0T	S8F	4000	215/50 R17	109,3	62,4	62,1	62,2	47,2	2063	32,7323	52,1375	39,3174	39,3
V60	Small Station Wagon	2.0T	S8F	4000	235/40 R18	109,3	62,0	61,7	61,8	46,9	336	32,7323	52,1375	39,3174	39,3
V60	Small Station Wagon	2.0T	S8F	4000	235/45 R18	109,3	62,0	61,7	61,8	46,9	65	32,7323	52,1375	39,3174	39,3
V60	Small Station Wagon	2.0T	S8F	4000	235/40 R19	109,3	62,0	61,7	61,8	46,9	397	32,7323	52,1375	39,3174	39,3
S60 Inscription	Compact Car	2.0T	S8F	4000	235/45 R18	112,5	62,0	61,7	61,8	48,3	2777	32,7323	52,1375	39,3174	39,3
S60 Inscription	Compact Car	2.0T	S8F	4000	235/40 R19	112,5	62,0	61,7	61,8	48,3	969	32,7323	52,1375	39,3174	39,3
XC60 FWD	Small SUV 2WD	2.0T	S8F	4000	235/60 R18	109,2	64,4	62,4	63,4	48,1	6072	29,0000	43,5000	34,1176	34,1
XC60 FWD	Small SUV 2WD	2.0T	S8F	4000	235/45 R20	109,2	64,4	62,4	63,4	48,1	1128	29,0000	43,5000	34,1176	34,1
S90 FWD	Midsize Car	2.0T	S8F	4000	245/45 R18	115,8	64,0	64,0	64,0	51,5	866	29,9000	48,6000	36,1613	36,2
S90 FWD	Midsize Car	2.0T	S8F	4000	255/40 R19	115,8	63,6	63,6	63,6	51,1	623	29,9000	48,6000	36,1613	36,2
S90 FWD	Midsize Car	2.0T	S8F	4000	255/35 R20	115,8	63,6	63,6	63,6	51,1	57	29,9000	48,6000	36,1613	36,2
S60 AWD	Compact Car	2.0T	S8A	4000	235/40 R18	109,3	62,0	61,7	61,8	46,9	2204	28,9642	45,4449	34,6128	34,6
S60 AWD	Compact Car	2.0T	S8A	4000	235/45 R18	109,3	62,0	61,7	61,8	46,9	527	28,9642	45,4449	34,6128	34,6
S60 AWD	Compact Car	2.0T	S8A	4000	235/40 R19	109,3	62,0	61,7	61,8	46,9	198	28,9642	45,4449	34,6128	34,6
V60 AWD	Small Station Wagon	2.0T	S8A	4000	215/50 R17	109,3	62,4	62,1	62,2	47,2	246	28,9642	45,4449	34,6128	34,6
V60 AWD	Small Station Wagon	2.0T	S8A	4000	235/45 R17	109,3	62,0	61,7	61,8	46,9	1	28,9642	45,4449	34,6128	34,6
V60 AWD	Small Station Wagon	2.0T	S8A	4000	235/40 R18	109,3	62,0	61,7	61,8	46,9	72	28,9642	45,4449	34,6128	34,6
V60 AWD	Small Station Wagon	2.0T	S8A	4000	235/40 R19	109,3	62,0	61,7	61,8	46,9	21	28,9642	45,4449	34,6128	34,6
S60 Inscription AWD	Compact Car	2.0T	S8A	4000	235/45 R18	112,5	62,0	61,7	61,8	48,3	4134	28,9642	45,4449	34,6128	34,6
S60 Inscription AWD	Compact Car	2.0T	S8A	4000	235/40 R19	112,5	62,0	61,7	61,8	48,3	426	28,9642	45,4449	34,6128	34,6
S60 AWD	Compact Car	2.0TS	S8A	4000	235/40R19	109,3	62,0	61,7	61,8	46,9	406	27,6987	44,2637	33,3079	33,3
V60 AWD	Small Station Wagon	2.0TS	S8A	4000	235/40R19	109,3	62,0	61,7	61,8	46,9	237	27,6987	44,2637	33,3079	33,3
S60 Polestar	Compact Car	2.0TS	S8A	4000	245/35 R20	109,3	62,0	61,7	61,8	46,9	74	25,1107	38,3298	29,7237	29,7
V60 Polestar	Small Station Wagon	2.0TS	S8A	4000	245/35 R20	109,3	62,0	61,7	61,8	46,9	125	25,1107	38,3298	29,7237	29,7
S90 AWD	Midsize Car	2.0TS	S8A	4500	245/45 R18	115,8	64,0	64	64	51,5	1073	27,7566	44,6502	33,4521	33,5
S90 AWD	Midsize Car	2.0TS	S8A	4500	255/40 R19	115,8	63,6	63,6	63,6	51,1	1617	27,7566	44,6502	33,4521	33,5
S90 AWD	Midsize Car	2.0TS	S8A	4500	255/35 R20	115,8	63,6	63,6	63,6	51,1	2119	27,7566	44,6502	33,4521	33,5
Total Volume											32025				

CAFE STATUS

The current estimate of Volvo's Passenger Car CAFE, based on a model year production forecast of 32,025 units, is projected to be **35.9 mpg**. This estimate uses minimum CAFE data requirements

CAFE REQUIREMENT

The current estimate of Volvo's Passenger Car CAFE Requirement, based on a model year production forecast of 32,025 units and calculated according to 49 CFR 531.5(b), is projected to be **37.4 mpg**.



Attachment II

Light Duty Truck Fuel Economy Information



CAFE - US Trucks Model Type Summary / CAFE Status

Truckline Name	Vehicle Class	Engine Name	Transmission Class	IWC	Base Tire	Wheelbase	Front Axle Track Width	Rear Axle Track Width	Average Track Width	Footprint	Projected Sales	City	Highway	MH	MH Rounded
XC90 AWD	Standard SUV 4WD	2.0T	S8A	4500	235/60 R18	117,5	65,5	65,6	65,6	53,5	491	27,5000	39,0000	31,7073	31,7
XC90 AWD	Standard SUV 4WD	2.0T	S8A	4500	235/55 R19	117,5	65,5	65,6	65,6	53,5	46	27,5000	39,0000	31,7073	31,7
XC90 AWD	Standard SUV 4WD	2.0T	S8A	4500	275/45 R20	117,5	65,8	65,9	65,8	53,7	281	27,5000	39,0000	31,7073	31,7
XC90 AWD	Standard SUV 4WD	2.0T	S8A	4500	275/35 R22	117,5	65,8	65,9	65,8	53,7	57	27,5000	39,0000	31,7073	31,7
XC90 FWD	Standard SUV 2WD	2.0T	S8F	4500	235/60 R18	117,5	65,5	65,6	65,6	53,5	765	28,1000	41,7000	32,9334	32,9
XC90 FWD	Standard SUV 2WD	2.0T	S8F	4500	235/55 R19	117,5	65,5	65,6	65,6	53,5	19	28,1000	41,7000	32,9334	32,9
XC90 FWD	Standard SUV 2WD	2.0T	S8F	4500	275/45 R20	117,5	65,8	65,9	65,8	53,7	249	28,1000	41,7000	32,9334	32,9
XC90 FWD	Standard SUV 2WD	2.0T	S8F	4500	275/35 R22	117,5	65,8	65,9	65,8	53,7	96	28,1000	41,7000	32,9334	32,9
XC60 AWD	Small SUV 4WD	2.0T	S8A	4500	235/60 R18	109,2	64,4	62,4	63,4	48,1	6855	25,3000	40,8000	30,5171	30,5
XC60 AWD	Small SUV 4WD	2.0T	S8A	4500	255/45 R20	109,2	64,4	62,4	63,4	48,1	1131	25,3000	40,8000	30,5171	30,5
V60 CC AWD	Compact Car	2.0T	S8A	4000	235/50 R18	109,2	63,3	61,7	62,5	47,4	2487	27,8000	43,5000	33,1906	33,2
V60 CC AWD	Compact Car	2.0T	S8A	4000	235/45 R19	109,2	63,3	61,7	62,5	47,4	377	27,8000	43,5000	33,1906	33,2
S60 CC AWD	Small Station Wagon	2.0T	S8A	4000	235/50 R18	109,2	63,3	61,7	62,5	47,4	310	27,8000	43,5000	33,1906	33,2
S60 CC AWD	Small Station Wagon	2.0T	S8A	4000	235/45 R19	109,2	63,3	61,7	62,5	47,4	59	27,8000	43,5000	33,1906	33,2
XC90 AWD	Standard SUV 4WD	2.0TS	S8A	5000	235/55 R19	117,5	65,5	65,6	65,6	53,5	4811	25,6651	35,6182	29,3566	29,4
XC90 AWD	Standard SUV 4WD	2.0TS	S8A	5000	275/45 R20	117,5	65,8	65,9	65,8	53,7	13212	25,6651	35,6182	29,3566	29,4
XC90 AWD	Standard SUV 4WD	2.0TS	S8A	5000	275/40 R21	117,5	65,8	65,9	65,8	53,7	3141	25,6651	35,6182	29,3566	29,4
XC90 AWD	Standard SUV 4WD	2.0TS	S8A	5000	275/35 R22	117,5	65,8	65,9	65,8	53,7	411	25,6651	35,6182	29,3566	29,4
XC60 AWD	Small SUV 4WD	2.0TS	S8A	4500	235/60 R18	109,2	64,4	62,4	63,4	48,1	1	25,2998	37,4003	29,6109	29,6
XC60 AWD	Small SUV 4WD	2.0TS	S8A	4500	235/55 R19	109,2	64,4	62,4	63,4	48,1	3030	25,2998	37,4003	29,6109	29,6
XC60 AWD	Small SUV 4WD	2.0TS	S8A	4500	255/45 R20	109,2	64,4	62,4	63,4	48,1	4511	25,2998	37,4003	29,6109	29,6
V90 CC AWD	Midsize Station Wagon	2.0TS	S8A	4500	235/50 R19	115,8	65,0	64,6	64,8	52,1	718	28,0437	42,2176	33,0346	33,0
V90 CC AWD	Midsize Station Wagon	2.0TS	S8A	4500	245/45 R20	115,8	64,9	64,5	64,7	52,0	560	28,0437	42,2176	33,0346	33,0
XC90 AWD	Standard SUV 4WD	2.0TSH	S8A	5500	275/45 R20	117,5	65,8	65,9	65,8	53,7	1139	50,7847	61,5415	55,1202	55,1
XC90 AWD	Standard SUV 4WD	2.0TSH	S8A	5500	275/40 R21	117,5	65,8	65,9	65,8	53,7	1331	50,7847	61,5415	55,1202	55,1
XC90 AWD	Standard SUV 4WD	2.0TSH	S8A	5500	275/35 R22	117,5	65,8	65,9	65,8	53,7	195	50,7847	61,5415	55,1202	55,1
Total Volume											46283				

CAFE STATUS

The current estimate of Volvo's Light Duty Truck CAFE, based on a model year production forecast of 46,283 units, is projected to be **30.9 mpg**. This estimate uses minimum CAFE data requirements

CAFE REQUIREMENT

The current estimate of Volvo's Light Duty Truck CAFE Requirement, based on a model year production forecast of 46,283 units and calculated according to 49 CFR 533.5(h), is projected to be **30.2 mpg**.



Light Truck Vehicle Information

		Truck Criteria						3-Row Seating
		not<28 deg	not<14 deg	not<20 deg	not<20 cm	not<18 cm		
Truckline Name	4-Wheel Drive	Approach Angle	Breakover Angle	Departure Angle	Running Clearance	Front Axle Clearance	Rear Axle Clearance	
S60 CC AWD	Yes	19,4	20,7	25,7	20,1	20,1	23,2	No
V60CC AWD	Yes	19,4	20,7	25,7	20,1	20,1	23,2	No
V90 CC AWD	Yes	18,9	17,7	20,7	21,0	21,0	25,2	No
XC60 AWD	Yes	20,0	22,1	26,9	23,0	23,0	26,0	No
XC90 FWD	No	23,8	21,3	23,3	23,8	23,8	24,4	Yes
XC90 AWD	Yes	23,8	21,3	23,3	23,8	23,8	24,4	Yes

All values in the above table are determined at EPA Curb Weight



Attachment IV

Fuel Economy Methodology Used in Projecting CAFE Values

Derived Fuel Economy Values

As provided by 49 CFR §537.9(a)(3), Volvo has used analytically derived fuel economy values, data substitutions and best internal estimates where no EPA approved or Volvo tests results exist at the appropriate sub configuration level for minimum test requirements. These values are derived from a base configuration (ETW), axle ratio, road load horsepower, and engineering judgment.



Attachment V

Report Addendum

The information contained in this report is, to the best of Volvo's knowledge, accurate and complete. This report is filed subject to the following provisions.

- 49 CFR §537.7(b)(5) requires that a manufacturer state whether the projected average fuel economy submitted herein, sufficiently represent the manufacturer's average and target fuel economy for the current model year for purposes of the act. Volvo hereby represents that, to the best of its present knowledge and belief, it has followed the testing procedures and calculation methods required by EPA in computing fuel economy values for its passenger cars and light trucks. Without waiving its right to later challenge any of the fuel economy testing procedures and methods, Volvo further represents that projected CAFE values contained in the attachments are as sufficiently representative as practicable of Volvo's passenger cars and light truck CAFE values for the purpose of the act., based on the projected sales volumes in the attachments and the relevant EPA test procedures and methods specified in 40 CFR, part 600 subpart F.
- Additional test data and/or analytical data may be substituted for data supplied herewith if warranted after further review and analysis. Such substitutions will be done in accordance with EPA guidelines and requirements