Automotive & Powersports

THE FACTS ABOUT YOUR INTAKE & AIR

ISO 5011 Tested to Make Sure You Maximize Airflow While Still Protecting Your Engine.

Part Number: 75-5116, 75-5116D
Description: Performance Intake Kit & Filter
Vehicle Applications: 2017-2018 Silverado 1500 / Sierra 1500 5.3L 6.2L

Test Date: 02/17/17
Test Report #: 1, 2, 3, 4, 5, 6, 7, 8

TECHNICAL BULLETIN

There is a lot of misinformation in the marketplace. S&B publishes specific test results for each of our intakes & filters as shown below, so you can make an informed decision. Remember, improving your airflow is only good if your engine is still protected. That's the S&B difference!

FACT: S&B Flows 40.16% Better than Stock
In tests performed in our climate controlled laboratory according to the ISO5011 Test Standard, S&B's intake kit (and filter) had significantly lower restriction (better airflow) than the stock intake system. See the graph on the next page.

WATCH OUT: Some competitors over state airflow.
If they state that their filter will flow, lets say 1000 cfm, without stating at what restriction level, they are trying to mislead you.

Description	% S&B Flowed Better than Stock (tested @ 419 cfm)
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)	40.16%
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)	36.07%
S&B Intake w/ Dry Filter (Secondary Inlet - Open)	37.43%
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)	34.02%

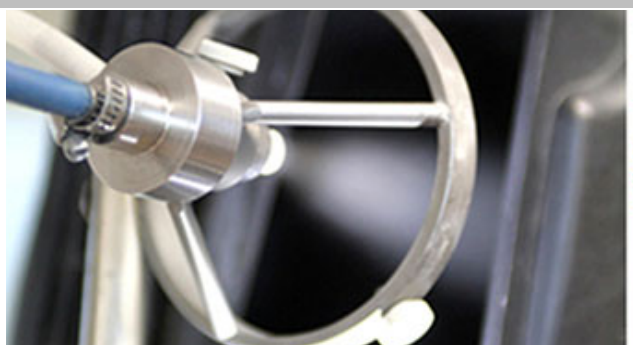
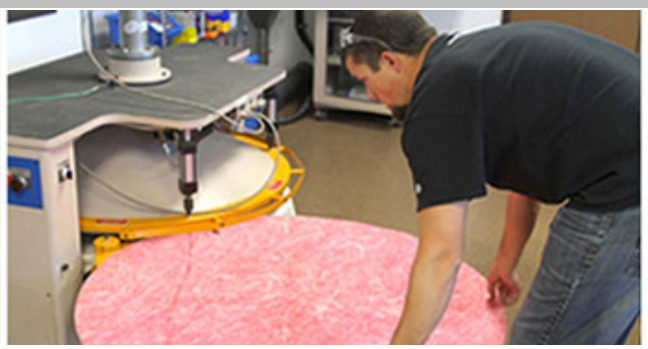
TEST CONDITIONS

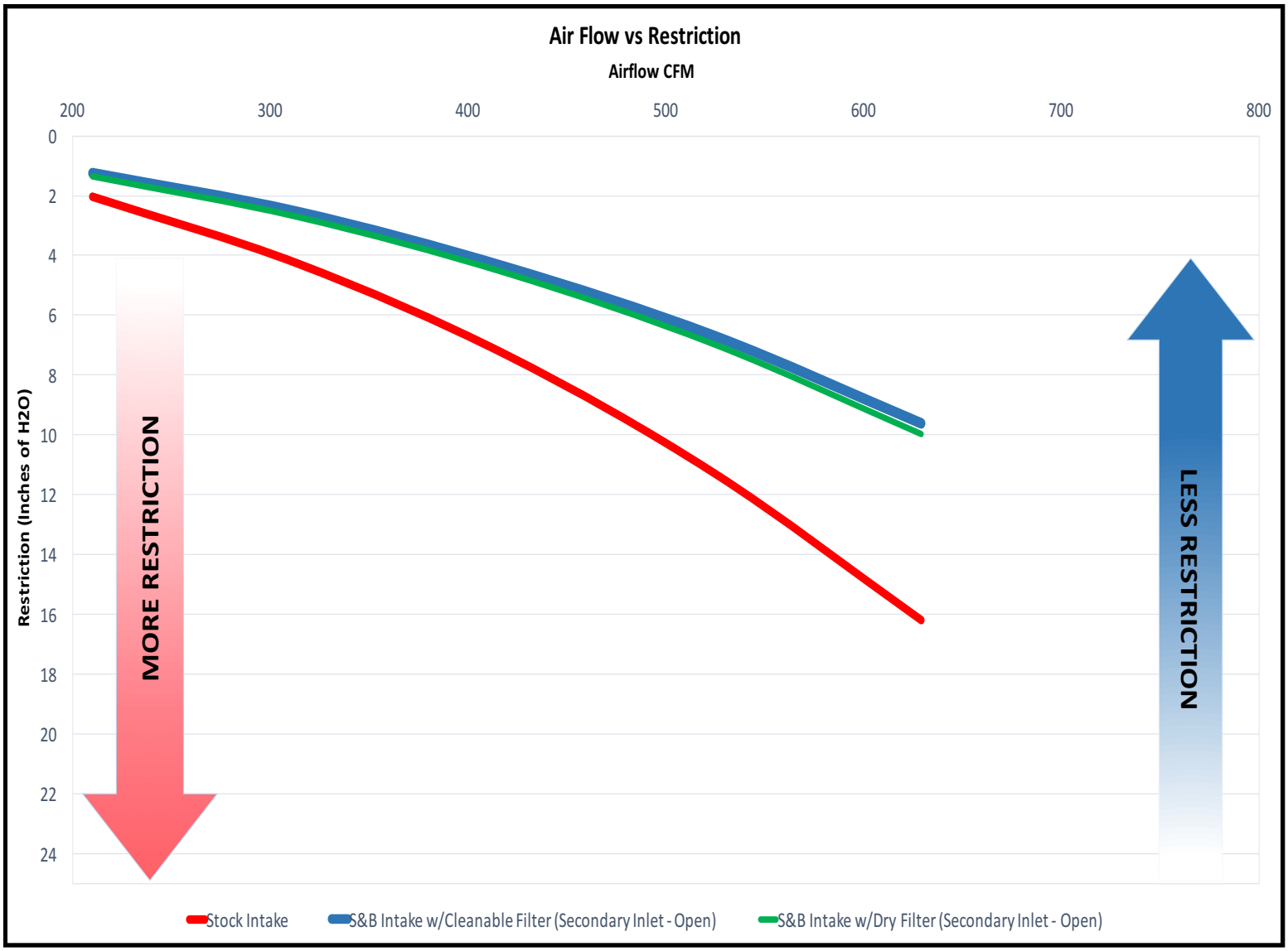
Barometric Pressure	28.98
Airflow Setpoint	419 cfm
Relative Humidity	50
Temperature	70.2F
Type of Dust	ISO Coarse
Batch #	13228C
Dust Feed Rate (grams/minute)	11.86

FACT: S&B Protects Your Engine
S&B tests at the highest rated CFM for your vehicle when determining the efficiency rate (amount of dust the filter stops), so that we can be sure that your engine will be protected.

Description	Efficiency Rate (tested @ 419 cfm)
Stock	99.45%
S&B Intake w/ Cleanable Filter	99.15%
S&B Intake w/ Dry Filter	99.74%

WATCH OUT: Some Competitors Use the Same Efficiency Rates for Multiple Part Numbers.
Many send one filter off to a lab to be tested at a low cfm and then publish this efficiency rate for all of their part numbers.

Air Filter Restriction Test Report

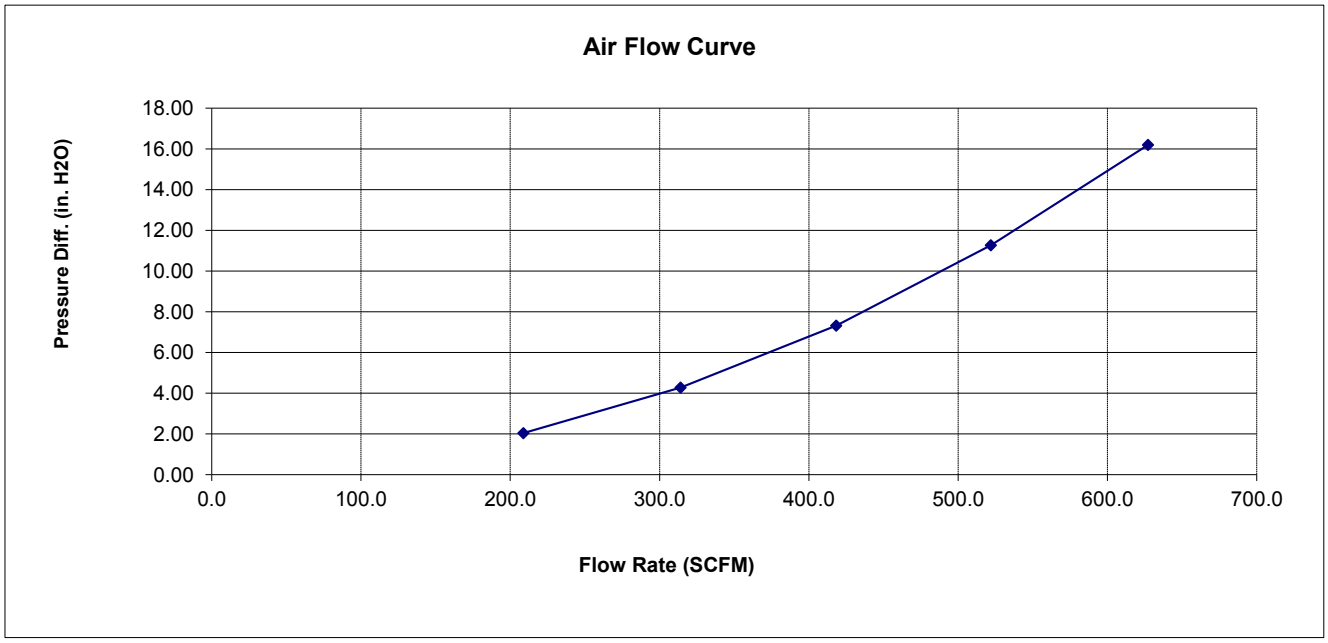
Test #: 404
Sample #: 1
Filter #: A3181C
Housing #:
Date Code:

Operator: SD
Report Date: 2/17/2017
Filter Mfg.:
Housing Mfg.:

Test Description: STOCK FILTER AND INTAKE, RESONATOR, NO SENSORS, ACDELCO A3181C

Test Conditions

Barometric Pressure:	28.94224 in. Hg	**Relative Humidity:**	48 %
Air Flow Type:	SCFM	**Temperature:**	69 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
209	2.04
314	4.28
418	7.32
522	11.27
627	16.20

Air Filter Restriction Test Report

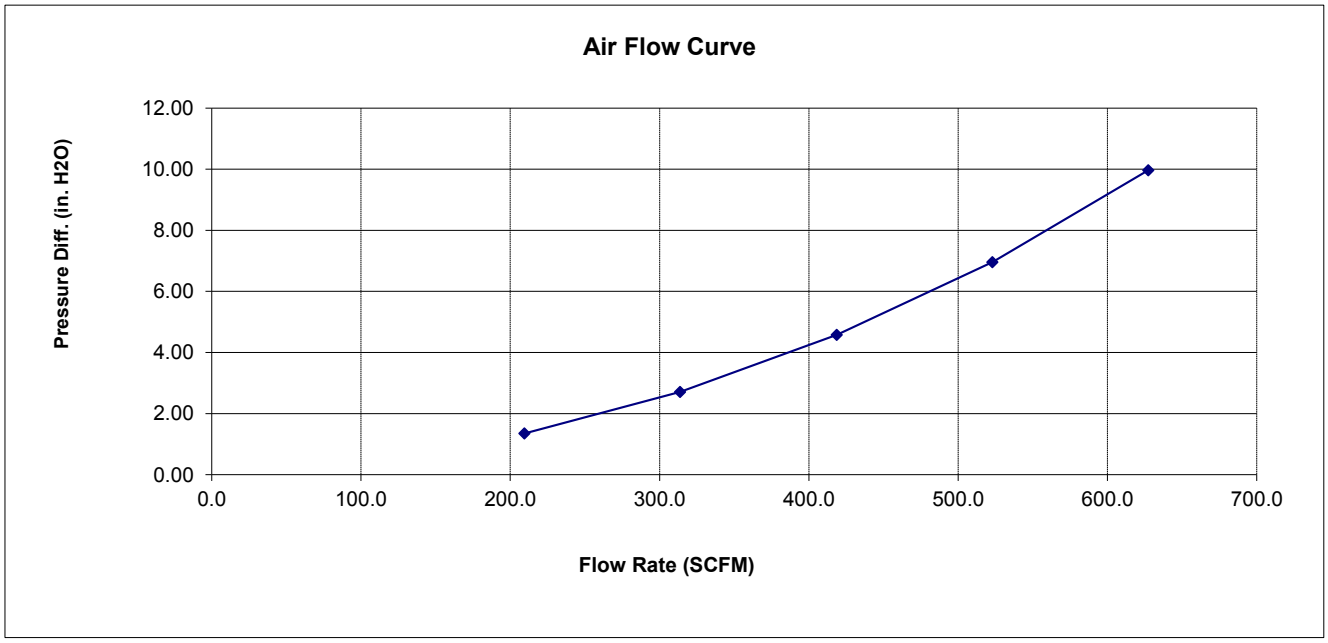
Test #: 404
Sample #: 3
Filter #: KF-1060D
Housing #: 75-5116
Date Code:

Operator: SD
Report Date: 2/17/2017
Filter Mfg.:
Housing Mfg.:

Test Description: 75-5116 PRODUCTION KIT, NO SENSORS, NO CCV, CLEAR LID AND FENDER SEAL INSTALLED PLUG REMOVED, KF-1060D

Test Conditions

Barometric Pressure:	28.94187 in. Hg	**Relative Humidity:**	48 %
Air Flow Type:	SCFM	**Temperature:**	68 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
210	1.35
314	2.71
419	4.58
523	6.96
627	9.97

Air Filter Restriction Test Report

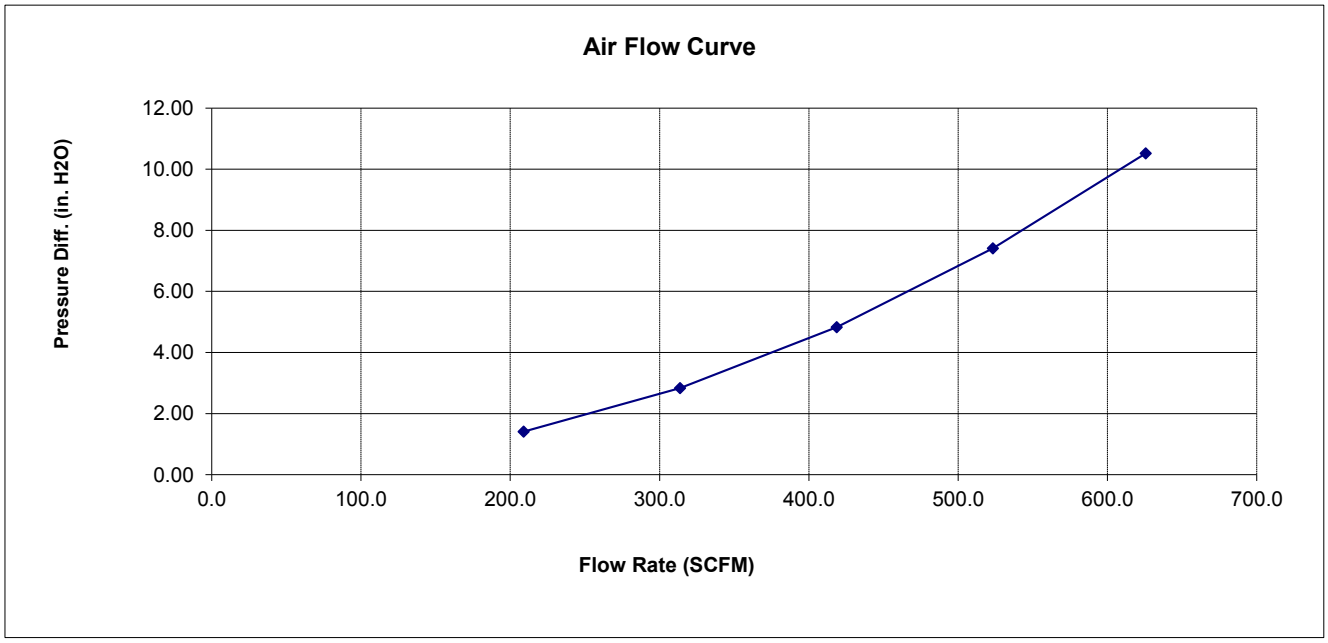
Test #: 404
Sample #: 4
Filter #: KF-1060D
Housing #: 75-5116
Date Code:

Operator: SD
Report Date: 2/17/2017
Filter Mfg.:
Housing Mfg.:

Test Description: 75-5116 PRODUCTION KIT, NO SENSORS, NO CCV, CLEAR LID AND FENDER SEAL INSTALLED, PLUG INSTALLE KF-1060D

Test Conditions

Barometric Pressure:	28.93421 in. Hg	**Relative Humidity:**	48 %
Air Flow Type:	SCFM	**Temperature:**	68 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
209	1.41
314	2.84
419	4.83
523	7.41
626	10.52

Air Filter Restriction Test Report

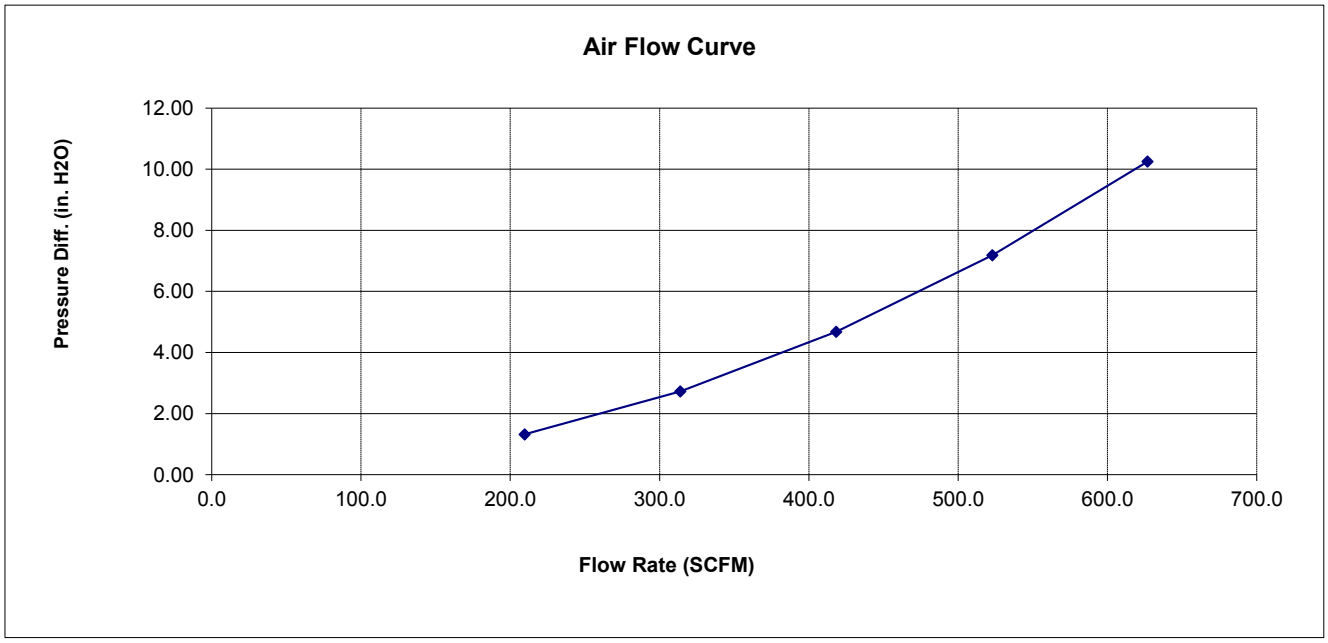
Test #: 404
Sample #: 5
Filter #: KF-1060
Housing #: 75-5116
Date Code:

Operator: SD
Report Date: 2/17/2017
Filter Mfg.:
Housing Mfg.:

Test Description: 75-5116 PRODUCTION KIT, NO SENSORS, NO CCV, CLEAR LID AND FENDER SEAL INSTALLED, PLUG INSTALLE KF-1060

Test Conditions

Barometric Pressure:	28.92104 in. Hg	**Relative Humidity:**	48 %
Air Flow Type:	SCFM	**Temperature:**	68 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
210	1.32
314	2.73
418	4.68
523	7.19
627	10.25

Air Filter Restriction Test Report

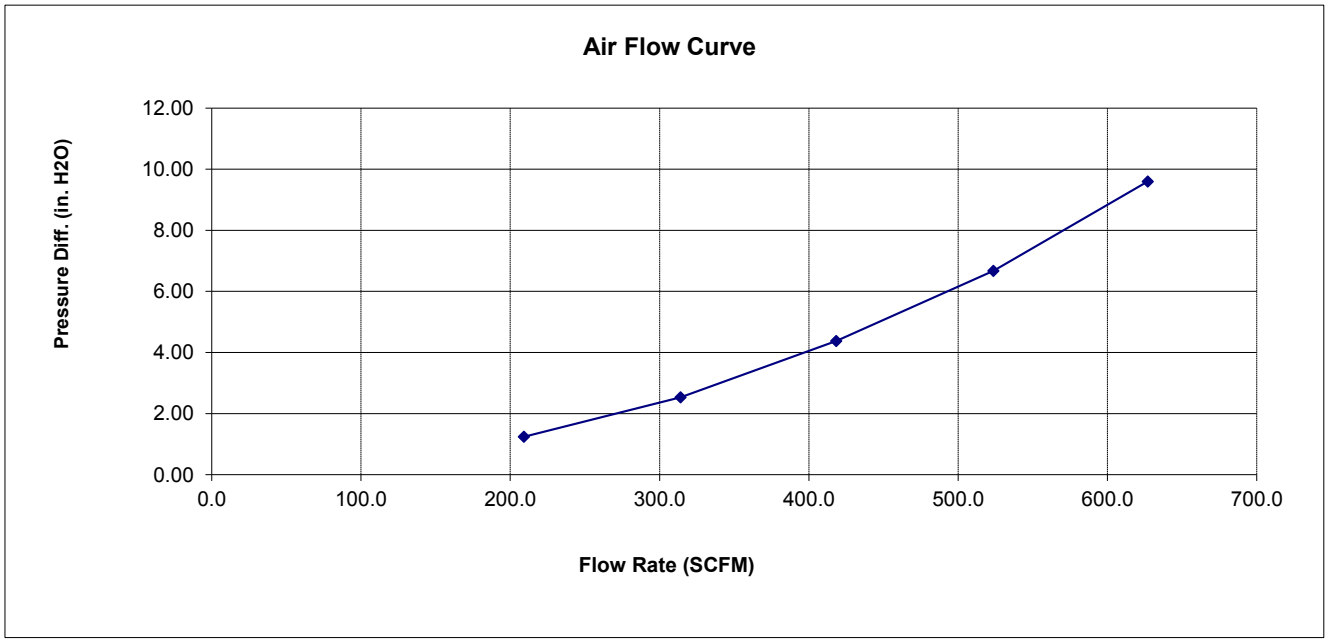
Test #: 404
Sample #: 6
Filter #: KF-1060
Housing #: 75-5116
Date Code:

Operator: SD
Report Date: 2/17/2017
Filter Mfg.:
Housing Mfg.:

Test Description: 75-5116 PRODUCTION KIT, NO SENSORS, NO CCV, CLEAR LID AND FENDER SEAL INSTALLED, PLUG REMOVED KF-1060

Test Conditions

Barometric Pressure:	28.92738 in. Hg	**Relative Humidity:**	49 %
Air Flow Type:	SCFM	**Temperature:**	68 deg. F
Number of Pleats:		**Pleat Depth:**	in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
209	1.24
314	2.54
418	4.38
524	6.67
627	9.60

Air Filter Full Life Efficiency Test Report

Test #: 404
Sample #: 2
Filter #: A3181C
Housing #:
Date Code:

Operator: SD
Report Date: 2/17/2017
Filter Mfg.:
Housing Mfg.:

Test Description: STOCK INTAKE AND FILTER, RESONATOR, NO SENSORS, ACDELCO A3181C

Test Conditions

Barometric Pressure:	28.946 in. Hg	**Relative Humidity:**	48 %
Air Flow Setpoint:	419 SCFM	**Type of Dust:**	A4 COARSE
Test Procedure:		**Batch #:**	13228C
Air Flow Type:	SCFM	**Temperature:**	69 deg. F
Test Endpoint:	10 in. H2O	**Initial Add Rate:**	NaN g/min
Number of Pleats:		**Accumulative Add Rate:**	11.86 g/min
Flow Direction:		**Pleat Depth:**	in.

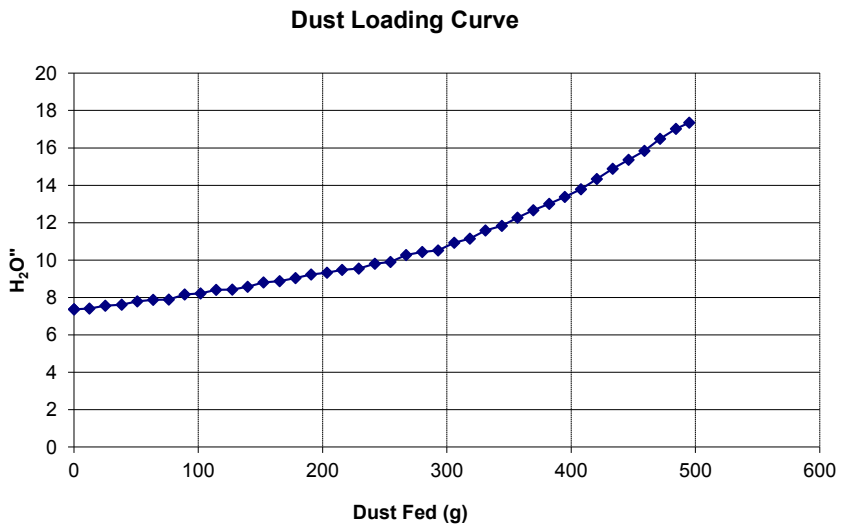
Test Results

Initial Delta P 7.33 in. H2O

Accumulative Capacity: 493.60 g
Test Time: 38.84 min

	Initial		Accumulative	
		Blanket		Blanket
Start			4650.50	136.90
End			5144.10	139.60
Gain			493.60	2.70
Efficiency			99.45%	

(•) Standard Restriction
( ) Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	**Pressure ("H2O)**
0	7.362
12.415	7.409
25.105	7.552
38.358	7.61
51.029	7.793
63.66	7.866
76.35	7.887
89.021	8.157
101.724	8.216
114.429	8.402
127.268	8.421
139.698	8.57
152.527	8.797
165.364	8.866
178.292	9.031
190.846	9.222
203.478	9.33
215.791	9.474
229.14	9.543
241.973	9.804
254.682	9.896
267.225	10.272
280.119	10.428
293.035	10.517

Air Filter Full Life Efficiency Test Report

Test #: 404
Sample #: 7
Filter #: KF-1060
Housing #: 75-5116
Date Code:

Operator: SD
Report Date: 2/17/2017
Filter Mfg.:
Housing Mfg.:

Test Description: 75-5116 PRODUCTION KIT, NO SENSORS, NO CCV, CLEAR LID AND FENDER SEAL INSTALLED PLUG INSTALLED, KF-1060

Test Conditions

Barometric Pressure:	28.897 in. Hg	**Relative Humidity:**	48 %
Air Flow Setpoint:	419 SCFM	**Type of Dust:**	A4 COARSE
Test Procedure:		**Batch #:**	13228C
Air Flow Type:	SCFM	**Temperature:**	68 deg. F
Test Endpoint:	10 in. H2O	**Initial Add Rate:**	NaN g/min
Number of Pleats:		**Accumulative Add Rate:**	11.86 g/min
Flow Direction:		**Pleat Depth:**	in.

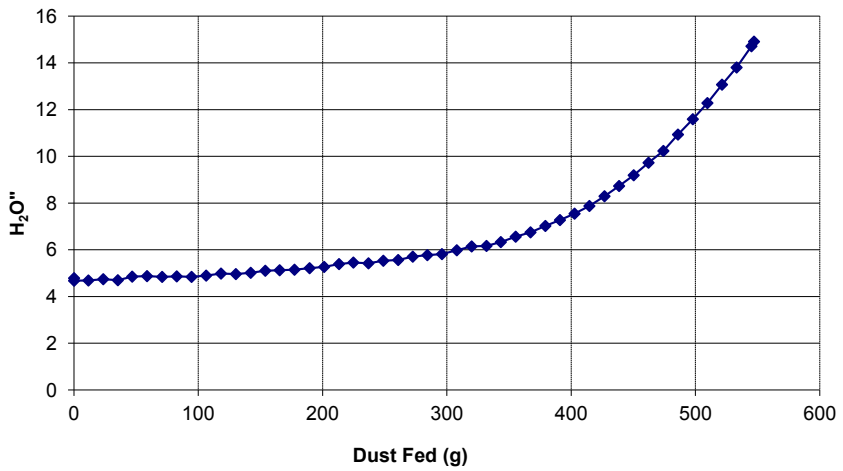
Test Results

Initial Delta P 4.82 in. H2O

Accumulative Capacity: 543.30 g
Test Time: 46.18 min

	Initial		Accumulative	
		Blanket		Blanket
Start			5141.00	139.60
End			5684.30	144.20
Gain			543.30	4.60
Efficiency			99.15%	

(•) Standard Restriction
( ) Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	**Pressure ("H2O)**
0	4.678
11.617	4.686
23.646	4.746
35.244	4.693
46.843	4.855
58.723	4.877
70.854	4.838
82.677	4.86
94.659	4.845
106.392	4.895
118.201	4.98
130.33	4.962
142.133	5.019
153.823	5.101
165.53	5.124
177.371	5.151
189.453	5.216
201.311	5.265
213.225	5.392
224.796	5.451
236.838	5.42
248.8	5.526
260.722	5.562
272.465	5.704

Air Filter Full Life Efficiency Test Report

Test #: 404
Sample #: 8
Filter #: KF-1060D
Housing #: 75-5116
Date Code:

Operator: SD
Report Date: 2/17/2017
Filter Mfg.:
Housing Mfg.:

Test Description: 75-5116 PRODUCTION KIT, NO SENSORS, NO CCV, CLEAR LID AND FENDER SEAL INSTALLED PLUG INSTALLED, KF-1060D

Test Conditions

Barometric Pressure:	28.852 in. Hg	**Relative Humidity:**	47 %
Air Flow Setpoint:	419 SCFM	**Type of Dust:**	A4 COARSE
Test Procedure:		**Batch #:**	13228C
Air Flow Type:	SCFM	**Temperature:**	69 deg. F
Test Endpoint:	10 in. H2O	**Initial Add Rate:**	NaN g/min
Number of Pleats:		**Accumulative Add Rate:**	11.86 g/min
Flow Direction:		**Pleat Depth:**	in.

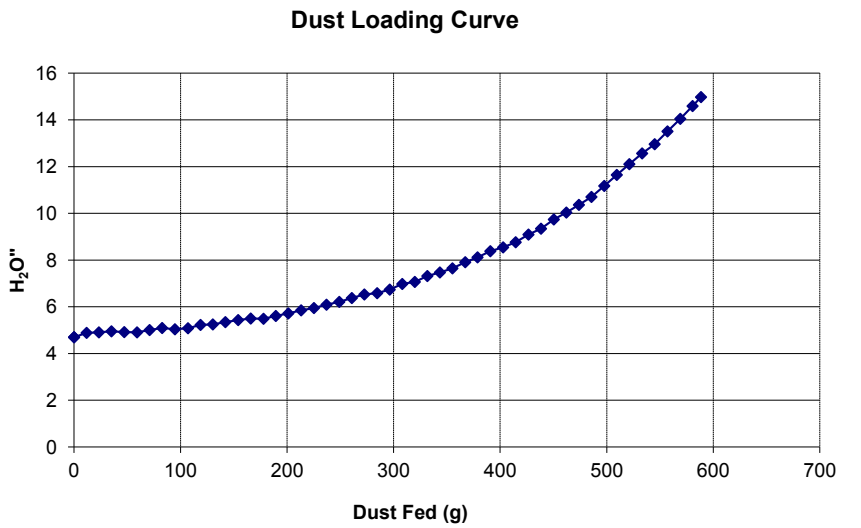
Test Results

Initial Delta P 4.85 in. H2O

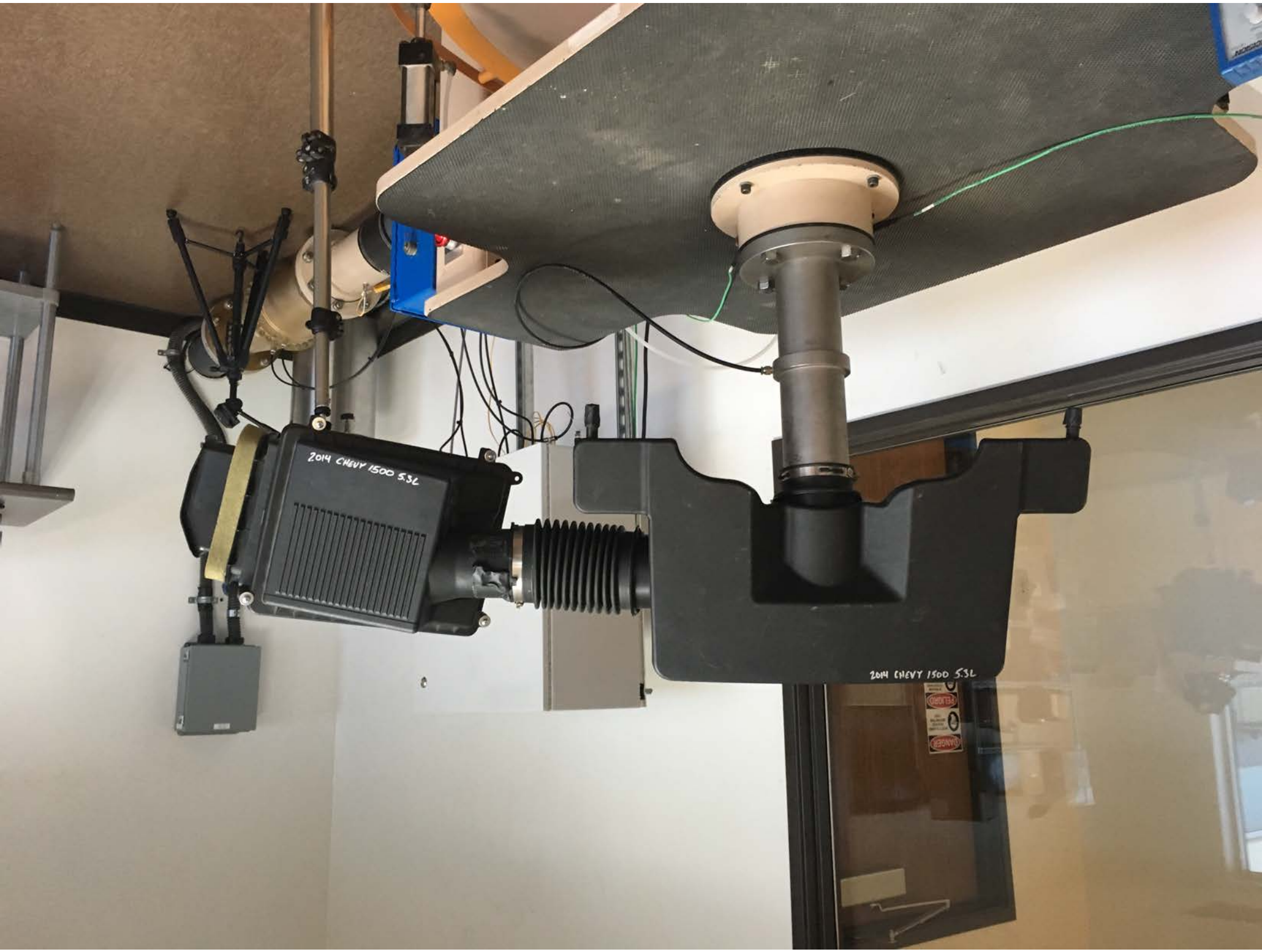
Accumulative Capacity: 586.10 g
Test Time: 49.66 min

	Initial		Accumulative	
		Blanket		Blanket
Start			5086.20	144.20
End			5672.30	145.75
Gain			586.10	1.55
Efficiency			99.74%	

(•) Standard Restriction
( ) Pressure Differential



Dust Loading Curve Data	
Dust Fed (g)	**Pressure ("H2O)**
0	4.696
11.742	4.88
23.328	4.903
35.264	4.954
47.238	4.922
59.135	4.904
70.871	5.004
82.725	5.091
94.86	5.039
106.982	5.084
118.697	5.228
130.418	5.244
142.173	5.349
154.03	5.43
165.888	5.503
177.793	5.488
189.358	5.607
201.22	5.717
213.258	5.851
225.231	5.942
237.012	6.088
248.94	6.205
260.681	6.377
272.624	6.525


2014 CHEVY 1500 5.3L
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2014 Chevy
1500 5.3L


CAUTION