

Automotive & Powersports

THE FACTS ABOUT YOUR INTAKE & AIR FILTER

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

Part Number:

Test Date:

Description:

Test Report #:

Vehicle Applications:

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

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 overstate airflow.

If they state that their filter will flow, let's say 1000 cfm, without stating at what restriction level, they are trying to mislead you.

Description	% S&B Flowed Better than	Test Conditions
	Stock (tested @cfm)	Barometric Pressure
S&B Intake w/ Oiled Filter (Secondary Inlet - Open)		Airflow Setpoint
S&B Intake w/ Oiled Filter		Relative Humidity
(Secondary Inlet - Closed)		Temperature
S&B Intake w/ Dry Filter	line line line line line line line line	Type of Dust
Secondary Inlet - Open		Batch #
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)		Dust Feed Rate (grams/minute)

FACT: S&B Protects Your Engine

S&B Tests at the highest rated CFM for your vehicle when determining the efficienty rate (amount of dust the filter stops), so that we can be sure that your engine will be protected

Description	Efficiency Rate (Tested @cfn
Stock	
<i>S&B Intake w/ Cleanable Filter</i>	
S&B Intake w/ Dry Filter	

_cfm)

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

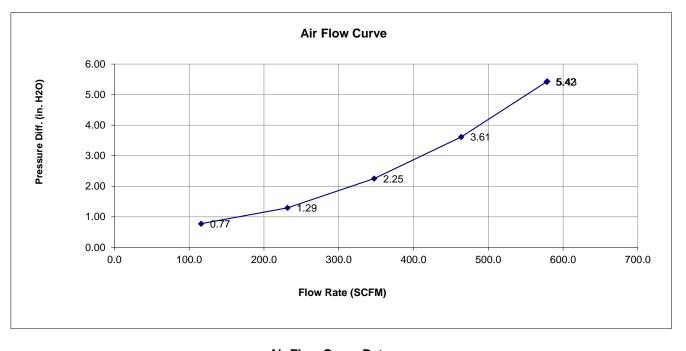
Air Filter Restriction Test Report

Test #: 753 Sample #: 5 Filter #: KF-1070 Housing #: 75-6000/75-6001 Date Code: 43635 BEN L 8/16/2019 S&B FILTERS S&B FILTERS



Test Description: RESTRICTION VERSUS 75-5085 AND 75-5104 OILED FILTER (WITH INSERT)

Test Conditions			
Barometric Pressure:	28.87909 in. Hg	Relative Humidity:	59 %
Air Flow Type:	SCFM	Temperature:	68 deg. F
Number of Pleats: Flow Direction:	77	Pleat Depth:	1 in.



Air Flow Curve Data				
Flow Rate	Differential Pressure			
116	0.77			
232	1.29			
347	2.25			
464	3.61			
578	5.42			
579	5.43			

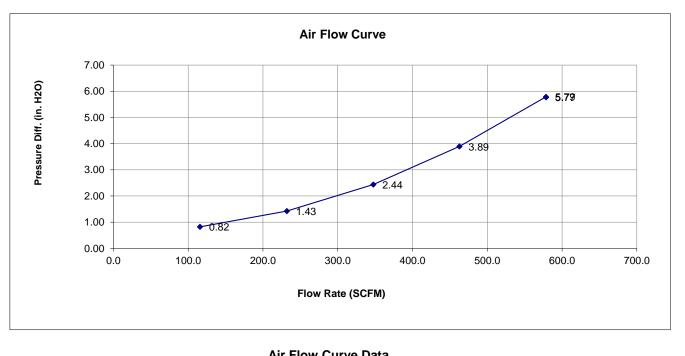
Air Filter Restriction Test Report

Test #: 753 Sample #: 4 Filter #: KF-1070R Housing #: 75-6000/75-6001 Date Code: 43635 BEN L 8/16/2019 S&B FILTERS S&B FILTERS



Test Description: RESTRICTION VERSUS 75-5085 AND 75-5104 DRY FILTER (WITH INSERT)

Test Conditions				
Barometric Pressure:	28.8787 in. Hg	Relative Humidity:	58 %	
Air Flow Type:	SCFM	Temperature:	68 deg. F	
Number of Pleats: Flow Direction:	100	Pleat Depth:	1 in.	



Air Flow Curve Data				
Flow	Rate	Differential Pressure		
11	6	0.82		
23	32	1.43		
34	7	2.44		
46	3	3.89		
57	'8	5.79		
57	'9	5.77		

Air Filter Full Life Efficiency Test Report

Test #: 757 Sample #: 2 Filter #: KF-1070 Housing #: 75-6000/75-6001 Date Code: 43692 Operator: BEN L Report Date: 8/16/2019 Filter Mfg.: S&B FILTERS Housing Mfg.: S&B FILTERS

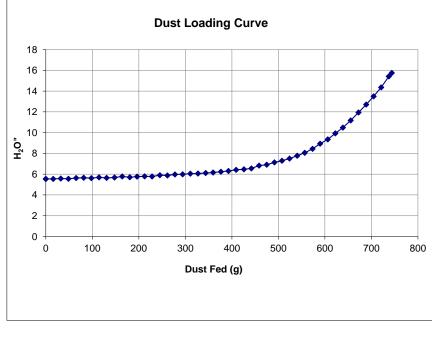


Test Description: EFFICIENCY OF THE OPEN INTAKE OILED FILTER

		Tes	t Condition	าร			
Barometric Pressure:	28.778 in. Hg			Relative	Humidity:	37	%
Air Flow Setpoint:	580 SCFM			Ту	be of Dust:	A4 COARSE	
Test Procedure:	EFFICIENCY				Batch #:	13985C	
Air Flow Type:	SCFM			Те	nperature:	74	deg. F
Test Endpoint:	10 in. H2O			Initial	Add Rate:	NaN	g/min
Number of Pleats:	77		4	Accumulative	Add Rate:	16.42	g/min
Flow Direction:				P	eat Depth:	0.9	in.
		T	est Results				
Initial Delta P	5.54 in. H2O			Accumulative	Capacity:	650.70	a
					Test Time:	45.38	•
		Initial		Accumulative	9		
			Blanket		Blanket		
	Start			4413.60	584.49		
	End			5064.30	589.81		
	Gain			650.70	5.32		
	Efficiency			99.19%			

Standard Restriction

C Pressure Differential



Dust Loading Curve Data			
Dust Fed (g)	Pressure ("H2O)		
0	5.545		
15.933	5.542		
32.258	5.576		
48.78	5.561		
65.133	5.626		
81.529	5.658		
98.038	5.614		
114.35	5.695		
130.618	5.637		
147.787	5.676		
164.314	5.777		
180.499	5.707		
196.16	5.767		
212.331	5.787		
228.459	5.78		
245.198	5.897		
261.447	5.878		
277.758	5.973		
294.279	5.992		
310.654	6.049		
327.25	6.061		
343.769	6.117		
359.769	6.166		
376.305	6.229		

Air Filter Full Life Efficiency Test Report

Test #: 736 Sample #: 10 Filter #: KF-1070R Housing #: 75-6000/75-6001 Date Code: 4.25.2019 Operator: BEN LONG Report Date: 4/25/2019 Filter Mfg.: S&B FILTERS Housing Mfg.: S&B FILTERS

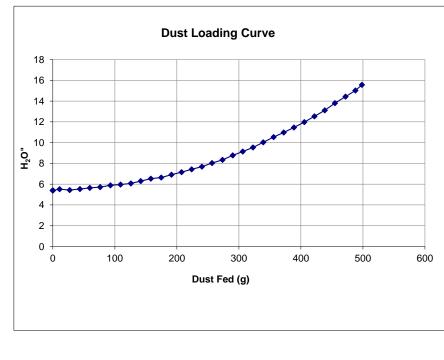


Test Description: CAPACITY AND EFFICIENCY TEST OF THE FORD POWERSTROKE 6.7L 2011-2019 S&B INTAKE WITH FILTER KF

		Test Condit	ions			
Barometric Pressure:	28.819 in. Hg		Relative	Humidity:	52 %	
Air Flow Setpoint:	580 SCFM		Тур	e of Dust:	A4 COARSE	
Test Procedure:	FICIENCY			Batch #:	13985C	
Air Flow Type:	SCFM		Ten	nperature:	69 deg. F	
Test Endpoint:	10 in. H2O		Initial	Add Rate:	NaN g/min	
Number of Pleats:	100		Accumulative	Add Rate:	16.42 g/min	
Flow Direction:			Ple	eat Depth:	0.9 in.	
		Test Resu	lts			
Initial Delta P	1.45 in. H2O		Accumulative	Capacity:	403.70 g	
				Test Time:	30.39 min	
		Initial	Accumulative	•		
		Blanket	:	Blanket		
	Start		2676.90	614.00		
	End		3080.60	614.40		
	Gain		403.70	0.40		
	Efficiency		99.90%			

Standard Restriction

Pressure Differential



Dust Loading Curve Data		
Dust Fed (g)	Pressure ("H2O)	
0	5.414	
0	5.397	
10.881	5.521	
27.32	5.432	
43.672	5.531	
59.637	5.647	
76.3	5.719	
92.955	5.885	
109.204	5.96	
125.962	6.075	
141.837	6.291	
158.175	6.524	
174.706	6.637	
191.238	6.915	
207.69	7.163	
223.93	7.429	
240.516	7.683	
256.711	8.028	
273.653	8.342	
290.151	8.779	
306.325	9.147	
322.838	9.537	
339.194	10.032	
355.991	10.533	









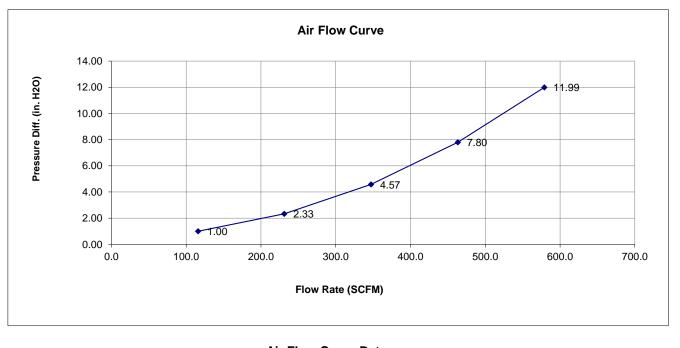
Air Filter Restriction Test Report

Test #: 753 Sample #: 15 Filter #: FA-1927 Housing #: 17-19 POWERSTROKE STOCK Date Code: 43636 BEN L 6/20/2019 FORD MOTORCRAF FORD



Test Description: STOCK AIRBOX AND FILTER RESTRICTION

Test Conditions				
Barometric Pressure:	28.8439 in. Hg	Relative Humidity:	50 %	
Air Flow Type:	SCFM	Temperature:	77 deg. F	
Number of Pleats: Flow Direction:		Pleat Depth:	in.	



Air Flow Curve Data				
Flow Rate	Differential Pressure			
116	1.00			
231	2.33			
347	4.57			
463	7.80			
579	11.99			

Air Filter Full Life Efficiency Test Report

 Test #:
 736

 Sample #:
 7

 Filter #:
 FA-1927

 Housing #:
 STOCK

 Date Code:
 4.25.2019

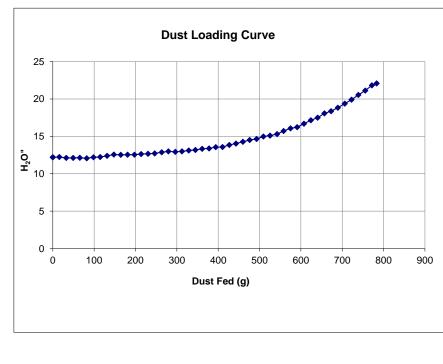
Operator: BEN LONG Report Date: 4/25/2019 Filter Mfg.: FORD MOTORCRAF Housing Mfg.: FORD



Test Description: CAPACITY AND EFFICIENCY TEST OF THE FORD POWERSTROKE 6.7L 2017-2019 STOCK AIR INTAKE/FILTER

		Test Cond	ditions			
Barometric Pressure:	28.863 in. Hg	Relative Humidity: Type of Dust:			57 %	
Air Flow Setpoint:	580 SCFM				A4 COARSE	
Test Procedure:	FICIENCY	Batch #:			13985C	
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:			16.42 g/min	
Flow Direction: Pleat D			eat Depth:	in.	in.	
Initial Delta P	12.12 in. H2O	Accumulative Capacity: Test Time:			660.60 g 47.70 min	
		Initial	Accumulative			
		Blank		Blanket		
	Start		5544.80			
	End		6205.40			
	Gain		660.60	1.99		
Efficiency			99.70%			
	•	Standard Restr	iction			

Pressure Differential



Dust Loading Curve Data						
Dust Fed (g)	Pressure ("H2O)					
0	12.202					
15.761	12.231					
32.441	12.121					
49.121	12.109					
65.402	12.129					
81.957	12.06					
98.396	12.203					
114.562	12.233					
131.197	12.384					
147.602	12.56					
164.332	12.535					
180.905	12.553					
197.438	12.543					
213.665	12.63					
230.223	12.658					
246.395	12.722					
263.296	12.862					
279.413	12.987					
296.151	12.913					
312.31	12.997					
328.622	13.118					
344.757	13.181					
361.142	13.337					
378.039	13.388					





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