



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!

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

<p>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</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>Efficiency Rate (Tested @ _____ cfm)</th> </tr> </thead> <tbody> <tr> <td>Stock</td> <td></td> </tr> <tr> <td>S&B Intake w/ Cleanable Filter</td> <td></td> </tr> <tr> <td>S&B Intake w/ Dry Filter</td> <td></td> </tr> </tbody> </table>	Description	Efficiency Rate (Tested @ _____ cfm)	Stock		S&B Intake w/ Cleanable Filter		S&B Intake w/ Dry Filter		<p>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</p>
Description	Efficiency Rate (Tested @ _____ cfm)									
Stock										
S&B Intake w/ Cleanable Filter										
S&B Intake w/ Dry Filter										

Air Filter Restriction Test Report

Test #: 723
Sample #: 1
Filter #: FA-1883
Housing #:
Date Code: 2019.02.21

Operator: WD
Report Date: 2/22/2019
Filter Mfg.: MOTORCRAFT
Housing Mfg.: FORD



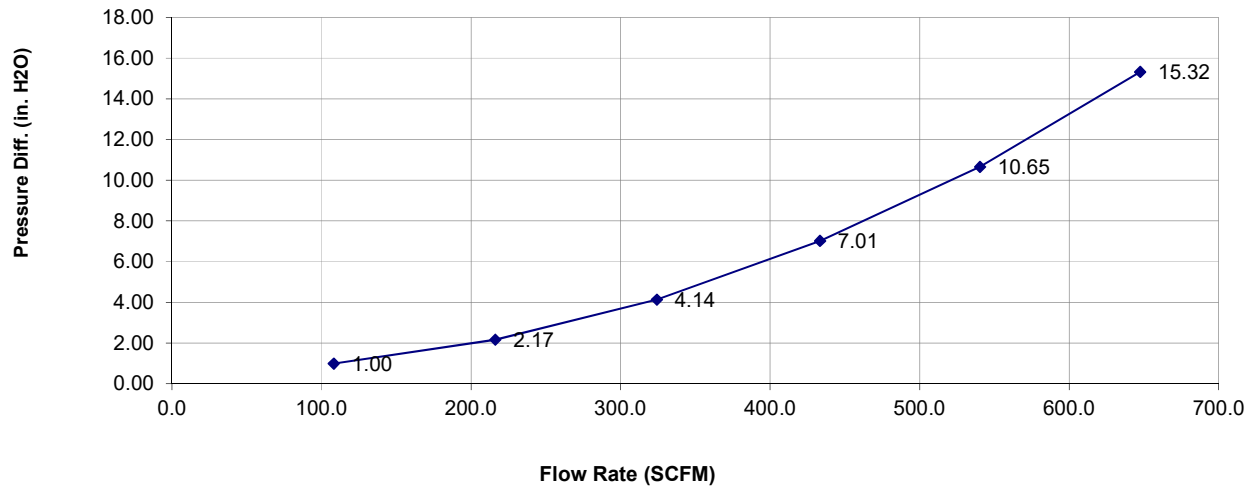
Test Description: 2015-2017 FORD EXPEDITION STOCK INTAKE TESTING, FA-1883, 541CFM AIRFLOW SET POINT

Test Conditions

Barometric Pressure: 28.5 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 40 %
Temperature: 71 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
108	1.00
216	2.17
324	4.14
433	7.01
540	10.65
647	15.32

Air Filter Restriction Test Report

Test #: 723
Sample #: 2
Filter #: KF-1058
Housing #: 75-5130
Date Code: 2019.02.21

Operator: WD
Report Date: 2/22/2019
Filter Mfg.: S&B FILTERS
Housing Mfg.: S&B FILTERS



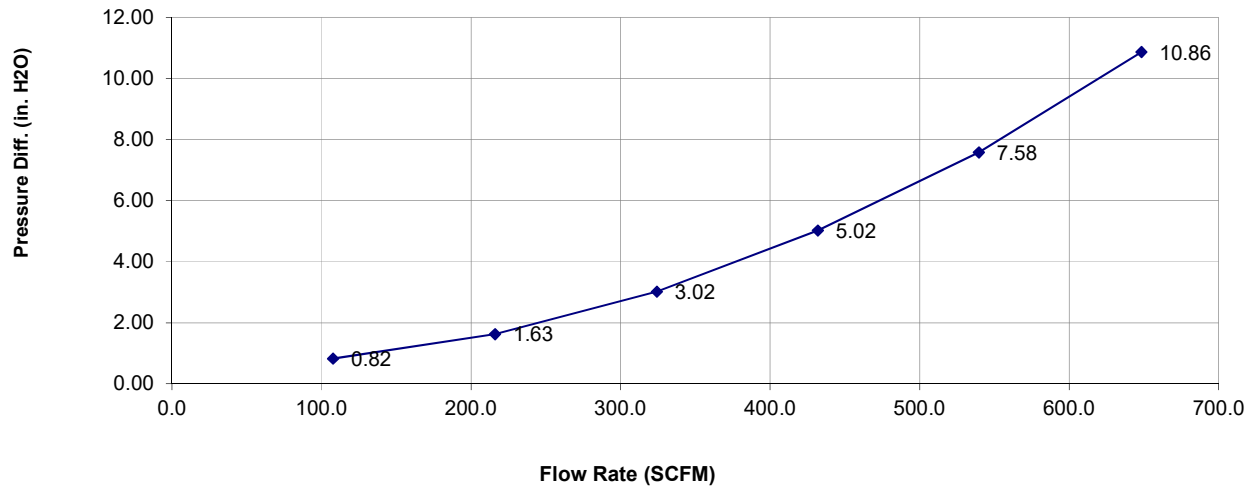
Test Description: 75-5130 PRODUCTION TESTING, KF-1058, 541CFM AIRFLOW SET POINT

Test Conditions

Barometric Pressure: 28.51025 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 42 %
Temperature: 71 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
108	0.82
216	1.63
324	3.02
432	5.02
540	7.58
648	10.86

Air Filter Restriction Test Report

Test #:
Sample #: 3
Filter #: KF-1058D
Housing #: 75-5130
Date Code: 2019.02.21

Operator: WD
Report Date: 2/22/2019
Filter Mfg.: S&B FILTERS
Housing Mfg.: S&B FILTERS



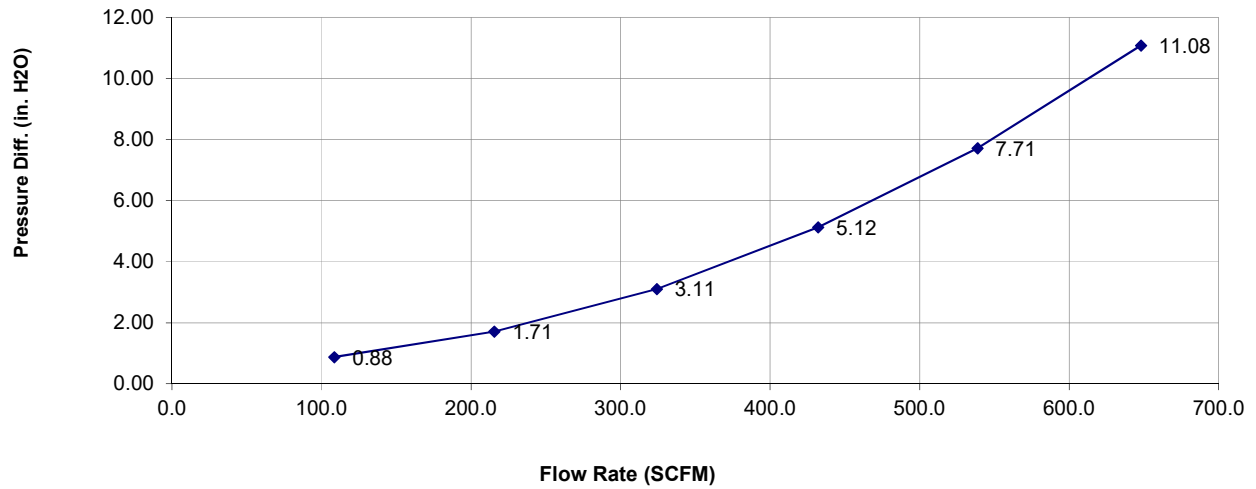
Test Description: 75-5130D PRODUCTION TESTING, KF-1058D, 541CFM AIRFLOW SET POINT

Test Conditions

Barometric Pressure: 28.50837 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 41 %
Temperature: 71 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
109	0.88
216	1.71
324	3.11
432	5.12
539	7.71
648	11.08

Air Filter Capacity & Efficiency Test Report

Test #: 723
Sample #: 1
Filter #: FA-1883
Housing #:
Date Code: 2019.02.21

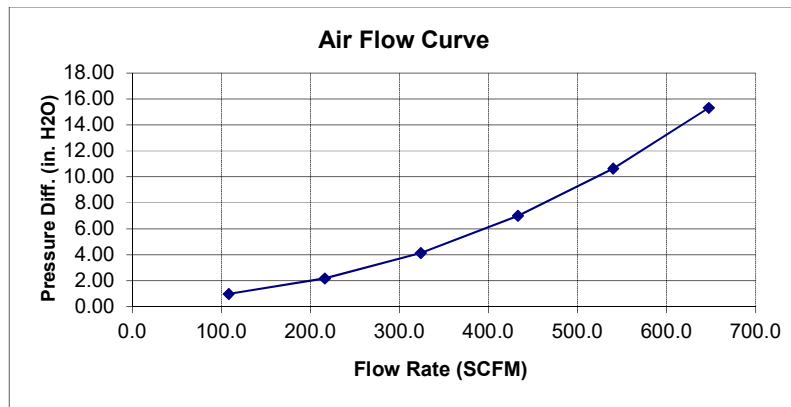
WD
 2/21/2019
 MOTORCRAFT
 FORD



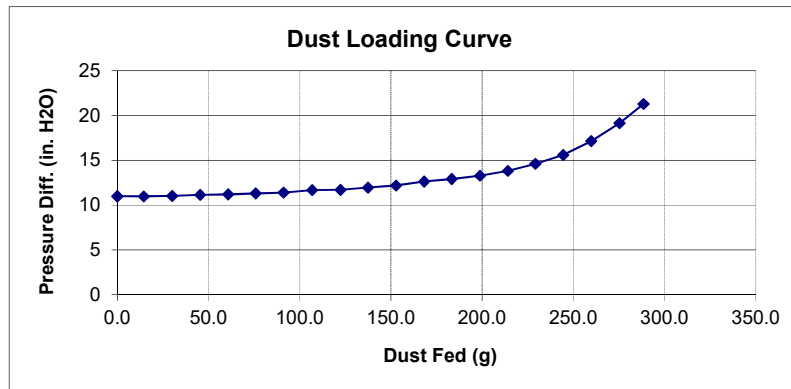
Test Description: 2015-2017 FORD EXPEDITION STOCK INTAKE TESTING, FA-1883, 541CFM AIRFLOW SET POINT

Test Conditions			
Barometric Pressure: 28.502 in. Hg Air Flow Setpoint: 541 SCFM Test Procedure: ISO-5011 Air Flow Type: SCFM Test Endpoint: 10 in. H2O Number of Pleats: Flow Direction:	Relative Humidity: 39 % Type of Dust: A4 COARSE Batch #: 13885C Temperature: 71 deg. F Initial Add Rate: NaN g/min Accumulative Add Rate: 15.32 g/min Pleat Depth: in.		

Test Results			
Initial Delta P 10.97 in. H2O	Accumulative Capacity: 287.50 g		
	Test Time: 18.86 min		
	Initial	Accumulative	
	Blanket	Blanket	
Start		6031.00	586.34
End		6318.50	586.88
Gain		287.50	0.54
Efficiency		99.81%	



Flow Rate	Differential Pressure
108	1.00
216	2.17
324	4.14
433	7.01
540	10.65
647	15.32



Dust Curve Selection

Standard Restriction
 Pressure Differential

Air Filter Capacity & Efficiency Test Report

Test #: 723
Sample #: 2
Filter #: KF-1058
Housing #: 75-5130
Date Code: 2019.02.21

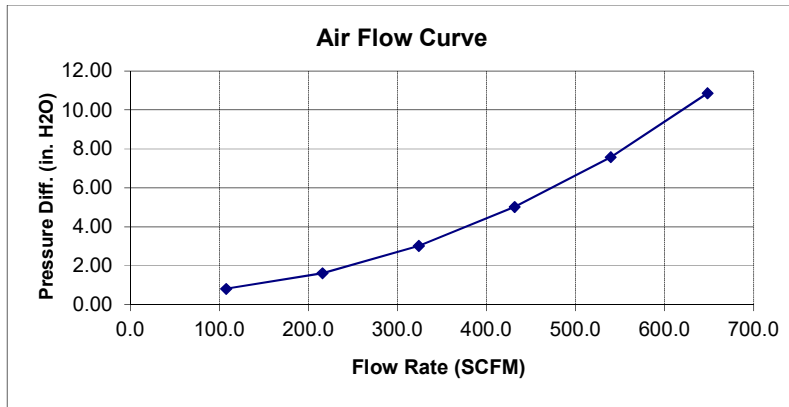
WD
 2/22/2019
 S&B FILTERS
 S&B FILTERS



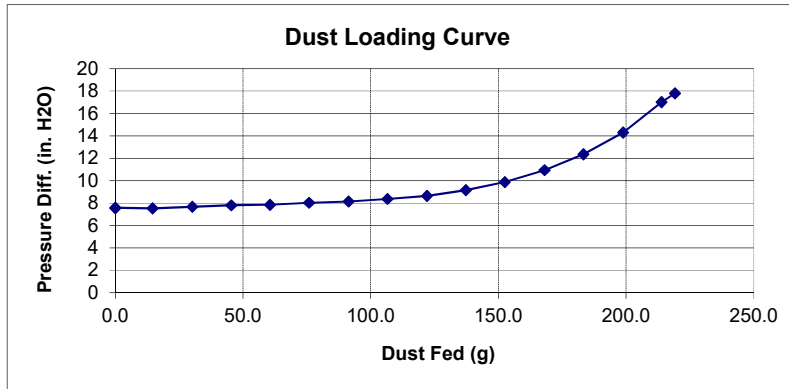
Test Description: 75-5130 PRODUCTION TESTING, KF-1058, 541CFM AIRFLOW SET POINT

Test Conditions			
Barometric Pressure:	28.871 in. Hg	Relative Humidity:	25 %
Air Flow Setpoint:	541 SCFM	Type of Dust:	A4 COARSE
Test Procedure:	ISO-5011	Batch #:	13885C
Air Flow Type:	SCFM	Temperature:	70 deg. F
Test Endpoint:	10 in. H2O	Initial Add Rate:	NaN g/min
Number of Pleats:		Accumulative Add Rate:	15.32 g/min
Flow Direction:		Pleat Depth:	in.

Test Results			
Initial Delta P	7.56 in. H2O	Accumulative Capacity:	218.00 g
		Test Time:	14.35 min
	Initial	Accumulative	
	Blanket	Blanket	
Start		8255.60	591.56
End		8473.60	592.77
Gain		218.00	1.21
Efficiency		99.44%	



Flow Rate	Differential Pressure
108	0.82
216	1.63
324	3.02
432	5.02
540	7.58
648	10.86



Dust Curve Selection

Standard Restriction
 Pressure Differential

Air Filter Capacity & Efficiency Test Report

Test #: 723
Sample #: 3
Filter #: KF-1058D
Housing #: 75-5130
Date Code: 2019.02.21

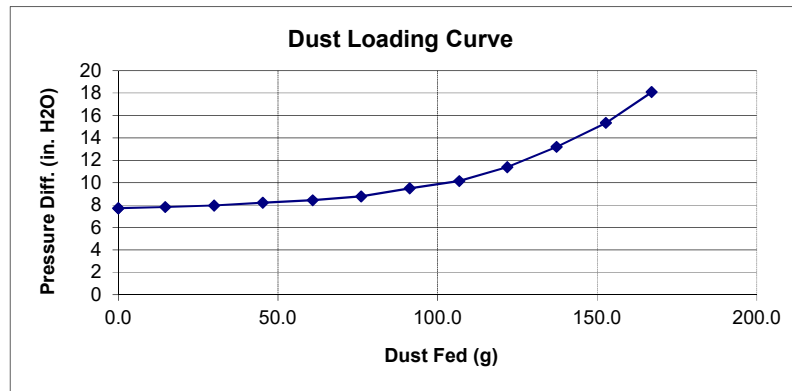
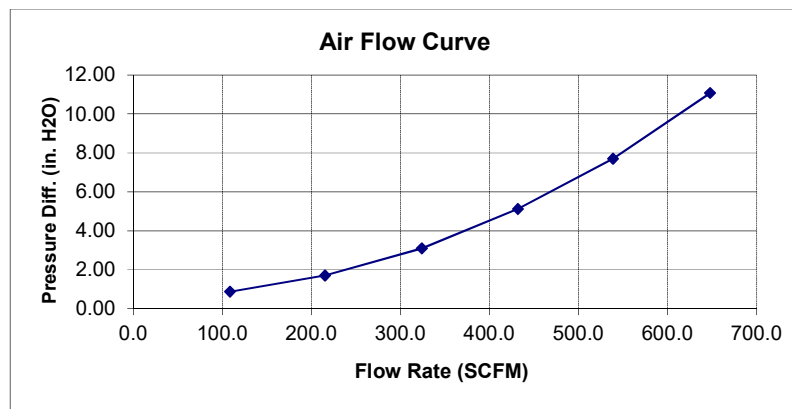
WD
 2/21/2019
 S&B FILTERS
 S&B FILTERS



Test Description: 75-5130D PRODUCTION TESTING, KF-1058D, 541CFM AIRFLOW SET POINT

Test Conditions			
Barometric Pressure:	28.515 in. Hg	Relative Humidity:	35 %
Air Flow Setpoint:	541 SCFM	Type of Dust:	A4 COARSE
Test Procedure:	ISO-5011	Batch #:	13885C
Air Flow Type:	SCFM	Temperature:	71 deg. F
Test Endpoint:	10 in. H ₂ O	Initial Add Rate:	NaN g/min
Number of Pleats:		Accumulative Add Rate:	0 g/min
Flow Direction:		Pleat Depth:	in.

Test Results			
Initial Delta P	7.79 in. H ₂ O	Accumulative Capacity:	167.60 g
		Test Time:	10.95 min
	Initial	Accumulative	
	Blanket	Blanket	
Start		8223.50	586.88
End		8391.10	587.60
Gain		167.60	0.72
Efficiency		99.57%	



Dust Curve Selection

Standard Restriction
 Pressure Differential











