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: 75-5137 **Test Date:** 11/17/2020

Description: Cold Air Intake **Test Report #:** 816

Vehicle Applications: 2020 GM 1500 3.0L Diesel

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 **51.61%** 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 Stock (tested @ 775 cfm)
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)	51.61%
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)	47.85%
S&B Intake w/ Dry Filter (Secondary Inlet - Open	51.56%
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)	50.14%

Test Conditions	
Barometric Pressure	28.876
Airflow Setpoint	775
Relative Humidity	42%
Temperature	71 °F
Type of Dust	A4 Coarse
Batch #	14057C
Dust Feed Rate (grams/minute)	21.95

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 @ 775 cfm)
Stock	98.58%
S&B Intake w/ Cleanable Filter	99.24%
S&B Intake w/ Dry Filter	99.33%

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

RESET FORM

Air Filter Restriction Test Report

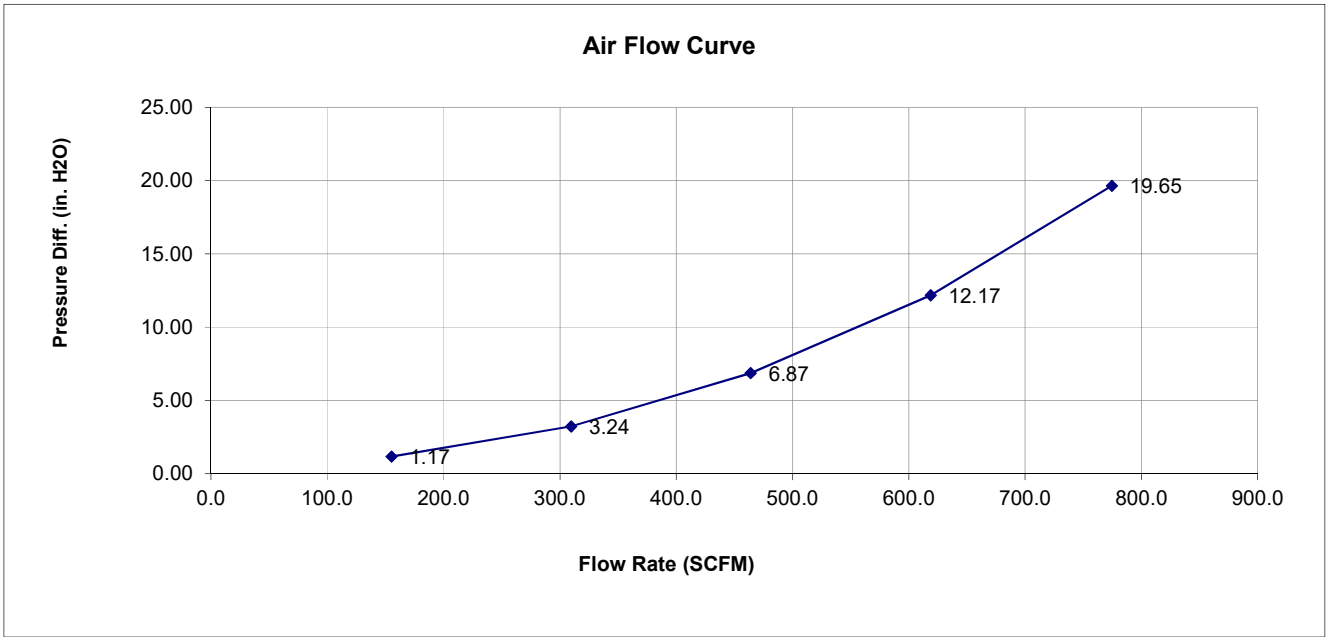
Test #: 816
Sample #: 1
Filter #: KF-1077
Housing #: 75-5137
Date Code: 11.17.2020

WD
11/24/2020
S&B FILTERS
S&B FILTERS

Test Description: 75-5137 GM 1500 DIESEL PRODUCTION TESTING, SECONDARY INLET OPEN

Test Conditions

Barometric Pressure:	28.95857 in. Hg	**Relative Humidity:**	39 %
Air Flow Type:	SCFM	**Temperature:**	70 deg. F
Number of Pleats:	65	**Pleat Depth:**	1 in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
155	1.17
310	3.24
464	6.87
619	12.17
775	19.65

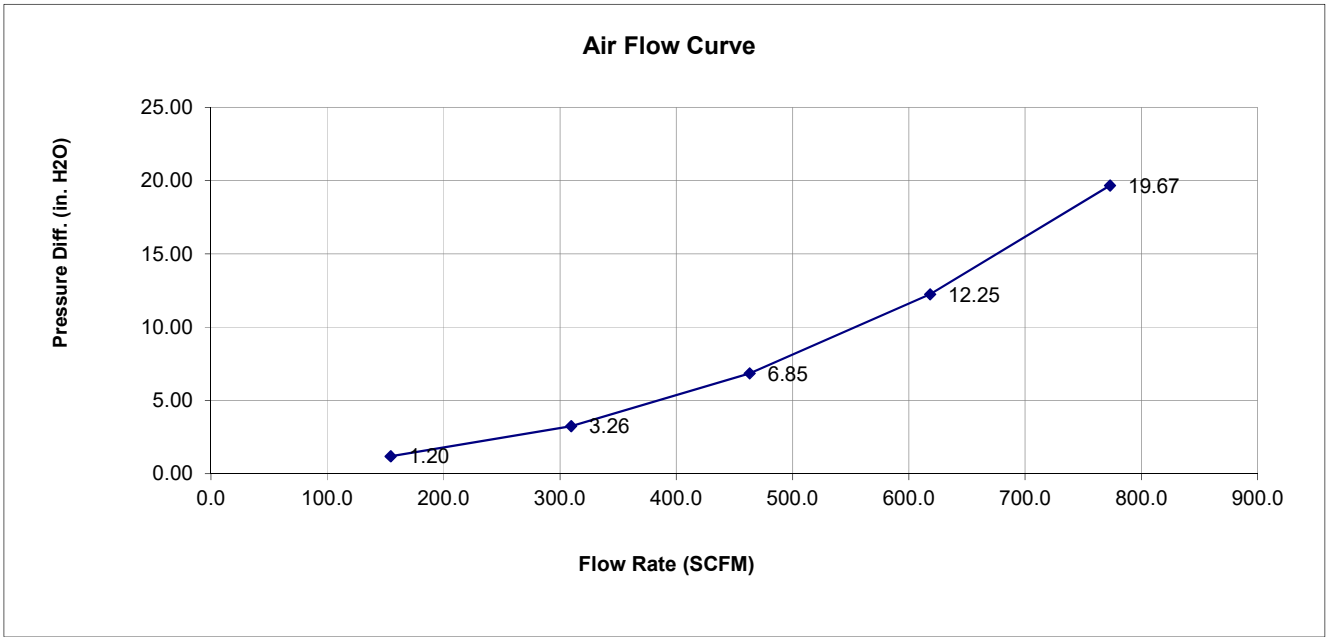
Air Filter Restriction Test Report

Test #:	**816**	WD	
Sample #:	2	11/24/2020	
Filter #:	KF-1077D	S&B FILTERS	
Housing #:	75-5137D	S&B FILTERS	
Date Code:	11.17.2020		

Test Description: 75-5137D GM 1500 DIESEL PRODUCTION TESTING, SECONDARY INLET OPEN

Test Conditions

Barometric Pressure:	28.90897 in. Hg	**Relative Humidity:**	41 %
Air Flow Type:	SCFM	**Temperature:**	70 deg. F
Number of Pleats:	120	**Pleat Depth:**	1 in.
Flow Direction:			



Air Flow Curve Data

Flow Rate	Differential Pressure
155	1.20
310	3.26
463	6.85
618	12.25
773	19.67

Air Filter Capacity & Efficiency Test Report

Test #: 816
Sample #: 1
Filter #: KF-1077
Housing #: 75-5137
Date Code: 11.17.2020

WD
11/24/2020
S&B FILTERS
S&B FILTERS

Test Description: 75-5137 GM 1500 DIESEL PRODUCTION TESTING, PLUG INSTALLED

Test Conditions

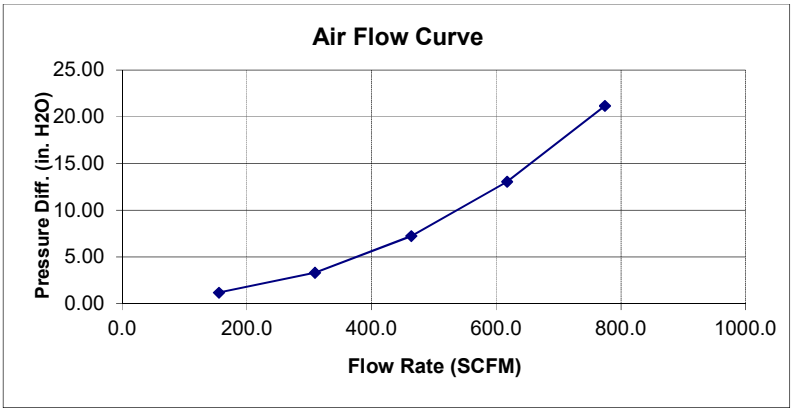
Barometric Pressure:	28.868 in. Hg	**Relative Humidity:**	42 %
Air Flow Setpoint:	775 SCFM	**Type of Dust:**	A4 COARSE
Test Procedure:	ISO-5011	**Batch #:**	14057C
Air Flow Type:	SCFM	**Temperature:**	70 deg. F
Test Endpoint:	10 in. H2O	**Initial Add Rate:**	NaN g/min
Number of Pleats:	65	**Accumulative Add Rate:**	21.95 g/min
Flow Direction:		**Pleat Depth:**	1 in.

Test Results

Initial Delta P 21.03 in. H2O

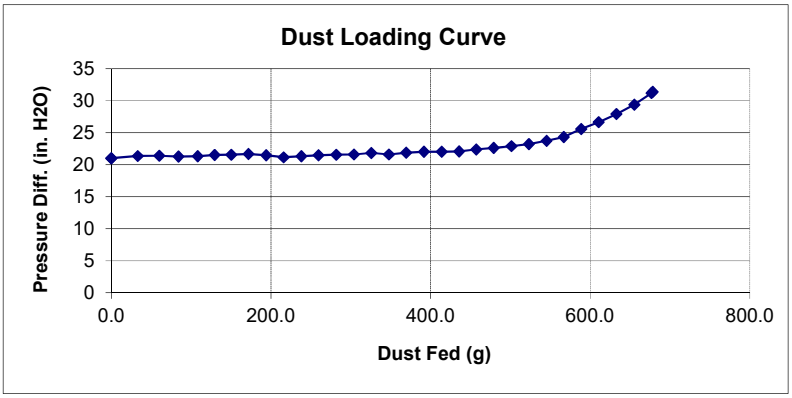
Accumulative Capacity: 702.60 g
Test Time: 30.08 min

	Initial		Accumulative					
		Blanket		Blanket				
Start			6373.40	593.52				
End			7076.00	598.87				
Gain			702.60	5.35				
Efficiency			99.24%					



Air Flow Curve Data

Flow Rate	Differential Pressure
155	1.20
310	3.33
464	7.24
618	13.06
775	21.18



Dust Curve Selection

- ○ Standard Restriction
- ◉ Pressure Differential

Air Filter Capacity & Efficiency Test Report

Test #: 816
Sample #: 2
Filter #: KF-1077D
Housing #: 75-5137D
Date Code: 11.17.2020

WD
11/24/2020
S&B FILTERS
S&B FILTERS

Test Description: 75-5137D GM 1500 DIESEL PRODUCTION TESTING, PLUG INSTALLED

Test Conditions

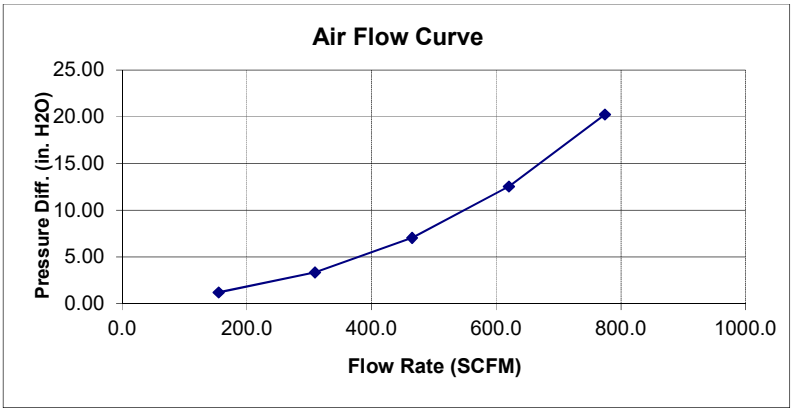
Barometric Pressure:	28.932 in. Hg	**Relative Humidity:**	39 %
Air Flow Setpoint:	775 SCFM	**Type of Dust:**	A4 COARSE
Test Procedure:	ISO-5011	**Batch #:**	14057C
Air Flow Type:	SCFM	**Temperature:**	71 deg. F
Test Endpoint:	10 in. H2O	**Initial Add Rate:**	NaN g/min
Number of Pleats:	120	**Accumulative Add Rate:**	21.95 g/min
Flow Direction:		**Pleat Depth:**	1 in.

Test Results

Initial Delta P 20.66 in. H2O

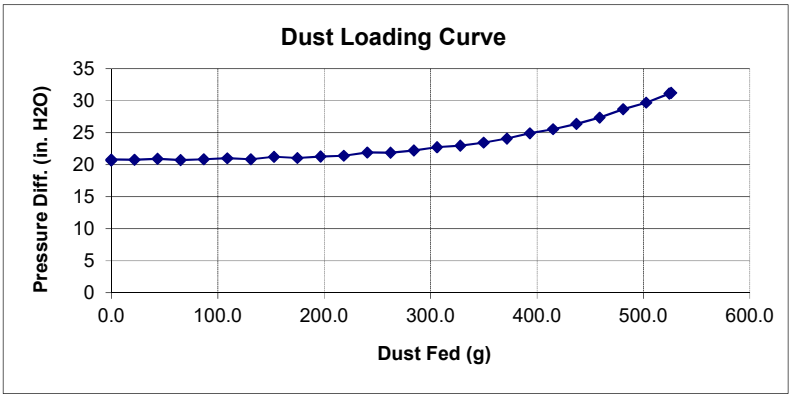
Accumulative Capacity: 522.50 g
Test Time: 24.07 min

	Initial		Accumulative					
		Blanket		Blanket				
Start			6124.10	596.20				
End			6646.60	599.70				
Gain			522.50	3.50				
Efficiency			99.33%					



Air Flow Curve Data

Flow Rate	Differential Pressure
155	1.22
310	3.36
465	7.07
620	12.55
775	20.25



Dust Curve Selection

- ○ Standard Restriction
- ◉ Pressure Differential

Air Filter Capacity & Efficiency Test Report

Test #: 816
Sample #: 3
Filter #: A3244C
Housing #:
Date Code: 11.17.2020

WD
11/24/2020
AC DELCO
CHEVROLET

Test Description: 2020 GM 1500 DIESEL PRODUCTION TESTING STOCK INTAKE

Test Conditions

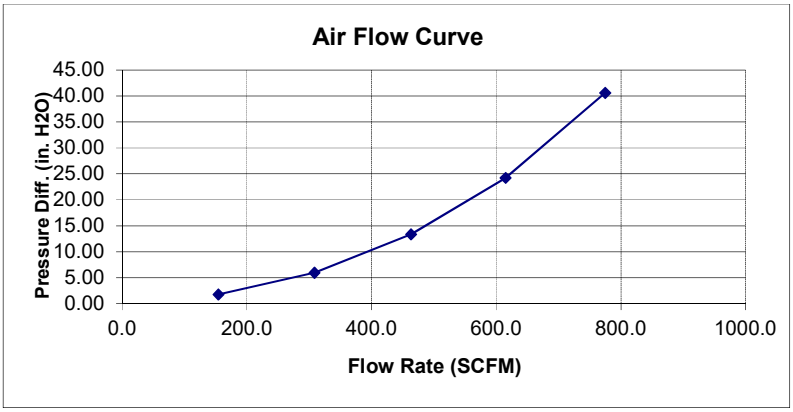
Barometric Pressure:	28.876 in. Hg	**Relative Humidity:**	42 %
Air Flow Setpoint:	775 SCFM	**Type of Dust:**	A4 COARSE
Test Procedure:	ISO-5011	**Batch #:**	14057C
Air Flow Type:	SCFM	**Temperature:**	71 deg. F
Test Endpoint:	10 in. H2O	**Initial Add Rate:**	NaN g/min
Number of Pleats:		**Accumulative Add Rate:**	21.95 g/min
Flow Direction:		**Pleat Depth:**	in.

Test Results

Initial Delta P 39.91 in. H2O

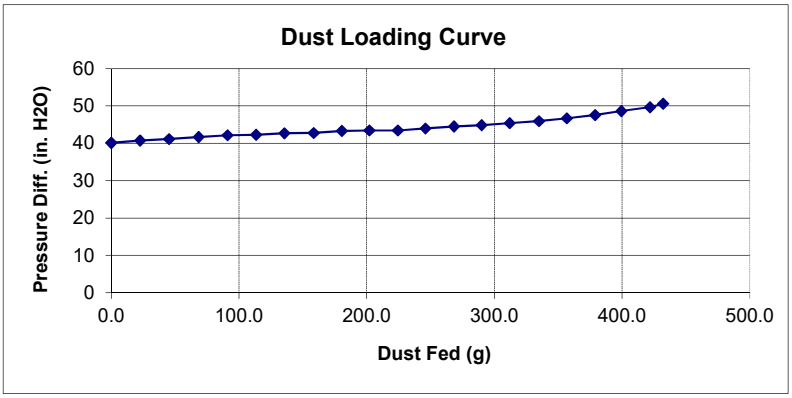
Accumulative Capacity: 426.00 g
Test Time: 19.45 min

	Initial		Accumulative					
		Blanket		Blanket				
Start			4503.60	607.93				
End			4929.60	613.97				
Gain			426.00	6.04				
Efficiency			98.58%					



Air Flow Curve Data

Flow Rate	Differential Pressure
154	1.80
308	5.97
464	13.40
615	24.26
775	40.61



Dust Curve Selection

- ○ Standard Restriction
- ◉ Pressure Differential