



Automotive & Powersports THE FACTS ABOUT YOUR INTAKE & AIR

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

Part Number: 75-5082, 75-5082D
Description: Performance Intake Kit & Filter
Vehicle Applications: 2015-2017 Nissan Titan Cummins 5.0L

Test Date: 11/09/16
Test Report #: 8, 9, 10, 11, 13, 14, 15, 16

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 27% 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 @ 494 cfm)
S&B Intake w/ Cleanable Filter (Secondary Inlet - Open)	27.25%
S&B Intake w/ Cleanable Filter (Secondary Inlet - Closed)	26.44%
S&B Intake w/ Dry Filter (Secondary Inlet - Open)	27.45%
S&B Intake w/ Dry Filter (Secondary Inlet - Closed)	25.02%

TEST CONDITIONS

Barometric Pressure	28.98
Airflow Setpoint	494 cfm
Relative Humidity	50
Temperature	70.2F
Type of Dust	ISO Coarse
Batch #	13099C
Dust Feed Rate (grams/minute)	13.99

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.

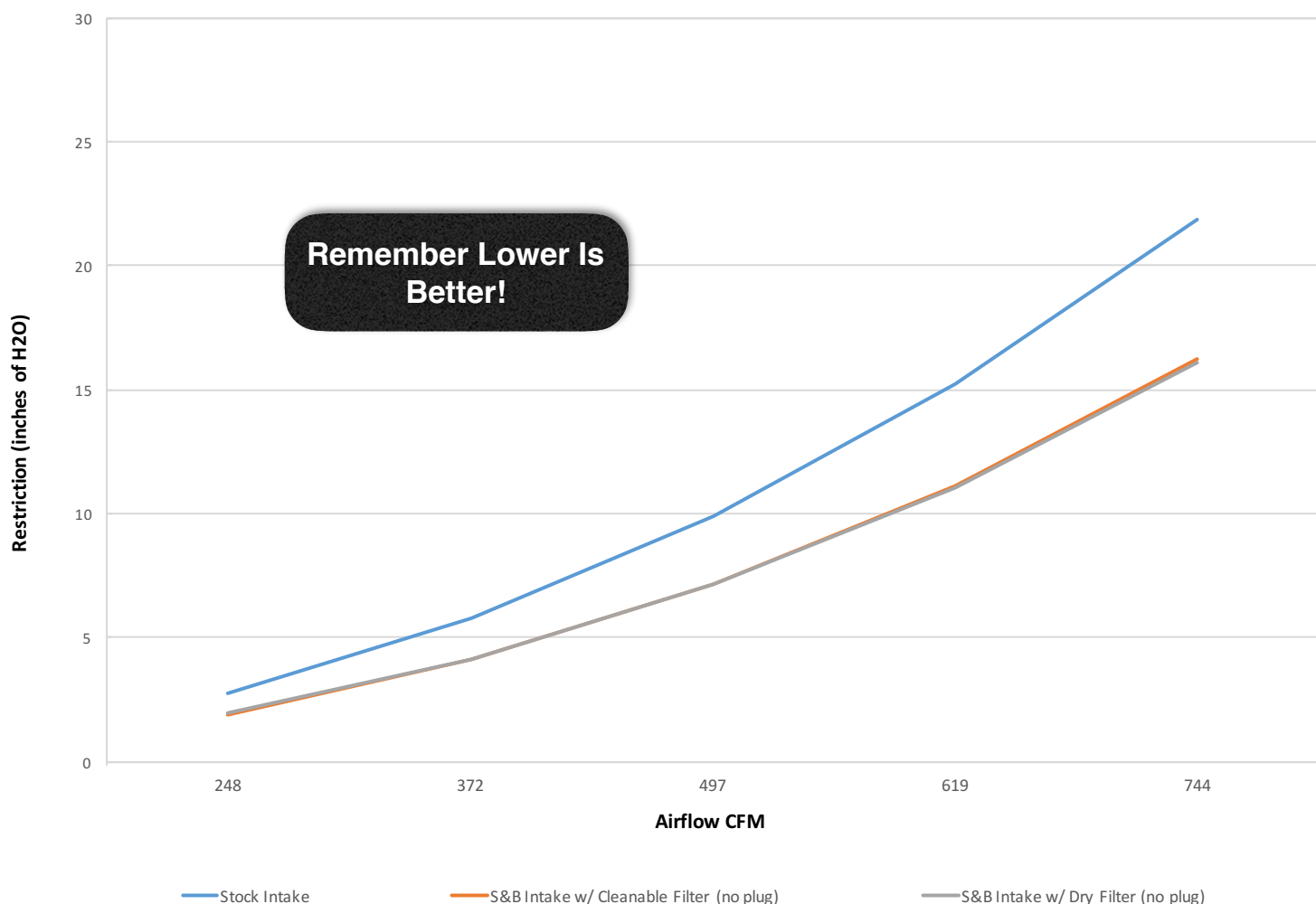
Description	Efficiency Rate (tested @ 494 cfm)
Stock	99.74%
S&B Intake w/ Cleanable Filter	99.29%
S&B Intake w/ Dry Filter	99.44%

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 Flow vs Restriction
(lower restriction = better airflow)



Air Filter Restriction Test Report

Test #: 425
Sample #: 8
Filter #: 16546-EZ40A
Housing #:
Date Code:

Operator: SD
Report Date: 11/9/2016
Filter Mfg.:
Housing Mfg.:



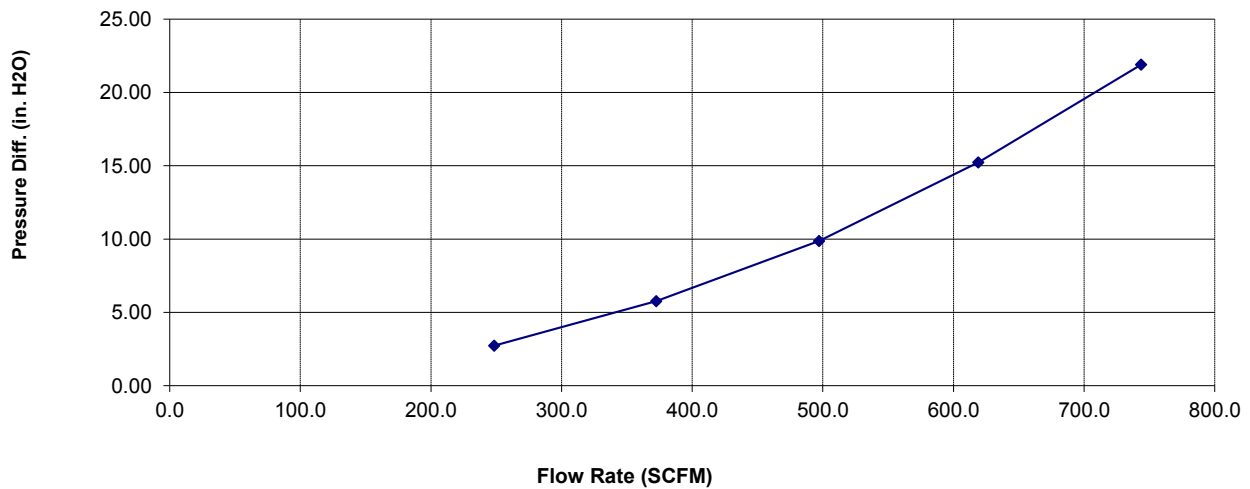
Test Description: STOCK INTAKE AND FILTER, SENSORS INSTALLED

Test Conditions

Barometric Pressure: 28.81798 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 49 %
Temperature: 68 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
248	2.73
372	5.76
497	9.87
619	15.24
744	21.90

Air Filter Restriction Test Report

Test #: 425
Sample #: 9
Filter #: KF-1063
Housing #: 75-5082
Date Code:

Operator: SD
Report Date: 11/9/2016
Filter Mfg.:
Housing Mfg.:



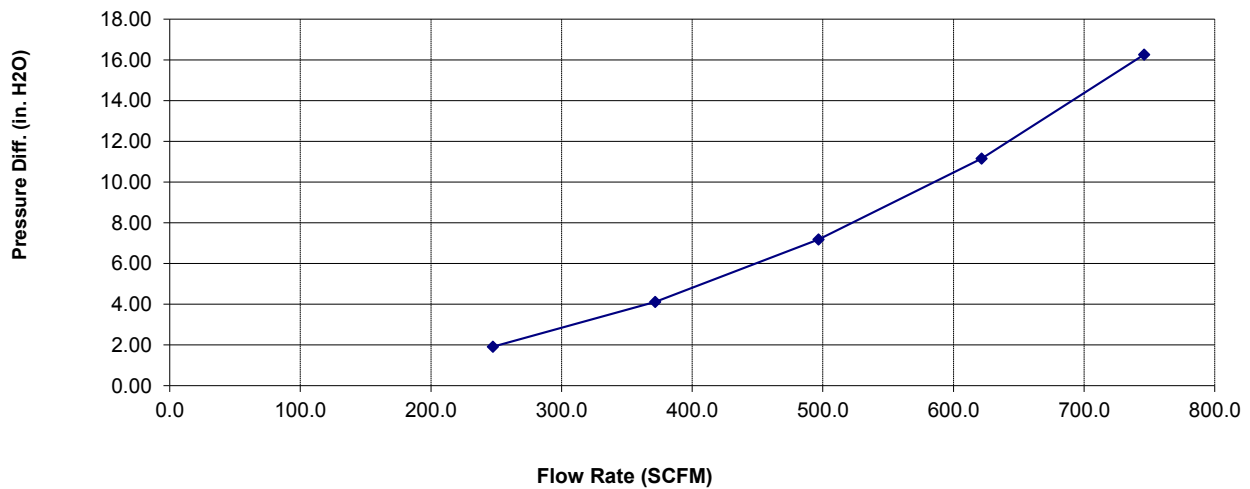
Test Description: 75-5082 Production Kit, Sensors installed, no plug

Test Conditions

Barometric Pressure: 28.81774 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 49 %
Temperature: 69 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
247	1.91
372	4.12
497	7.18
622	11.15
746	16.26

Air Filter Restriction Test Report

Test #: 425
Sample #: 11
Filter #: KF-1063
Housing #: 75-5082
Date Code:

Operator: SD
Report Date: 11/9/2016
Filter Mfg.:
Housing Mfg.:



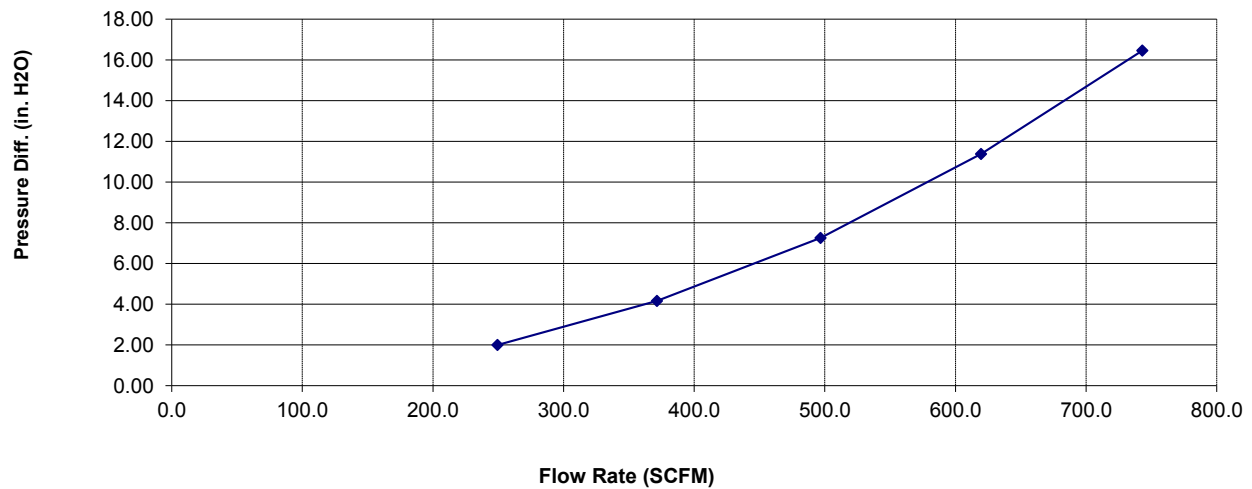
Test Description: 75-5082 PRODUCTION KIT, SENSORS INTALLED, PLUG IN, LID ON

Test Conditions

Barometric Pressure: 28.87232 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 55 %
Temperature: 70 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

<u>Flow Rate</u>	<u>Differential Pressure</u>
249	2.00
372	4.16
497	7.26
620	11.38
743	16.46

Air Filter Restriction Test Report

Test #: 425
Sample #: 13
Filter #: KF-1063D
Housing #: 75-5082
Date Code:

Operator: SD
Report Date: 11/9/2016
Filter Mfg.:
Housing Mfg.:



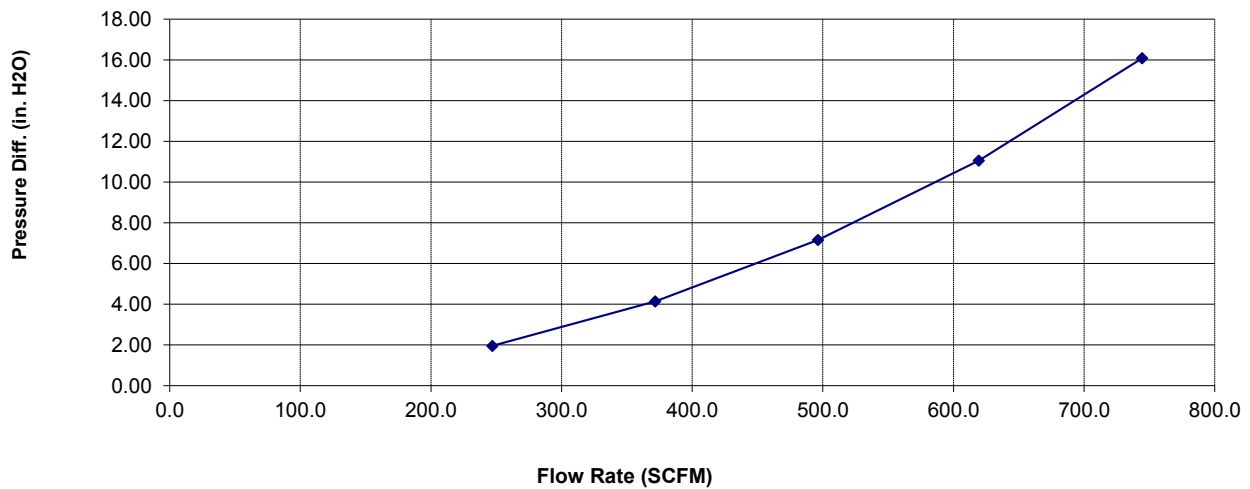
Test Description: 75-5082 PRODUCTION KIT, SENSORS INSTALLED, PLUG REMOVED, LID ON

Test Conditions

Barometric Pressure: 28.86619 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 53 %
Temperature: 69 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

Flow Rate	Differential Pressure
247	1.96
372	4.14
496	7.16
620	11.06
744	16.08

Air Filter Restriction Test Report

Test #: 425
Sample #: 14
Filter #: KF-1063D
Housing #: 75-5082
Date Code:

Operator: SD
Report Date: 11/9/2016
Filter Mfg.:
Housing Mfg.:



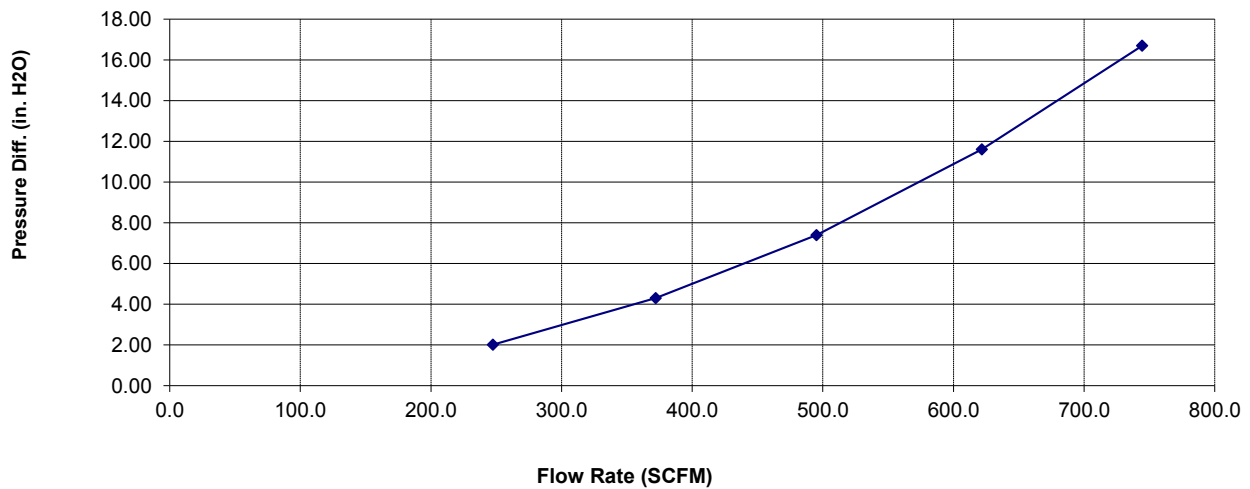
Test Description: 75-5082 PRODUCTION KIT, SENSORS INSTALLED, PLUG IN, LID ON

Test Conditions

Barometric Pressure: 28.86286 in. Hg
Air Flow Type: SCFM
Number of Pleats:
Flow Direction:

Relative Humidity: 54 %
Temperature: 69 deg. F
Pleat Depth: in.

Air Flow Curve



Air Flow Curve Data

Flow Rate	Differential Pressure
247	2.01
372	4.30
495	7.40
622	11.61
744	16.70

Air Filter Full Life Efficiency Test Report

Test #: 425
 Sample #: 10
 Filter #: 16546-EZ40A
 Housing #:
 Date Code:

Operator: SD
 Report Date: 11/9/2016
 Filter Mfg.:
 Housing Mfg.:



Test Description: STOCK INTAKE & FILTER, NO SENSORS

Test Conditions

Barometric Pressure: 28.907 in. Hg
 Air Flow Setpoint: 494 SCFM
 Test Procedure:
 Air Flow Type: SCFM
 Test Endpoint: 10 in. H2O
 Number of Pleats:
 Flow Direction:

Relative Humidity: 55 %
 Type of Dust: A4 COARSE
 Batch #: 13099C
 Temperature: 69 deg. F
 Initial Add Rate: NaN g/min
 Accumulative Add Rate: 13.99 g/min
 Pleat Depth: in.

Test Results

Initial Delta P 9.01 in. H2O

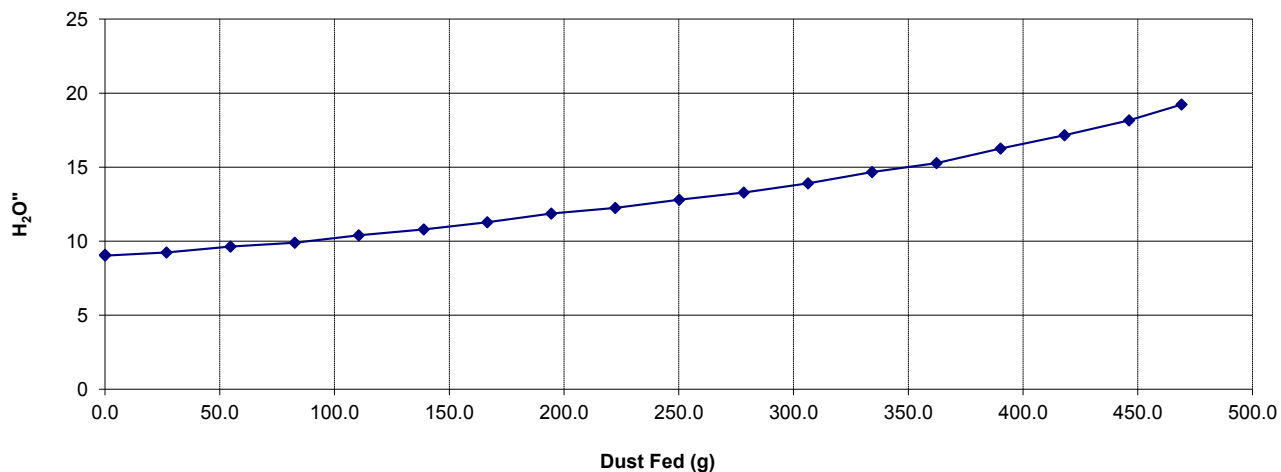
Accumulative Capacity: 467.87 g
 Test Time: 33.65 min

	Initial		Accumulative	
	Filter	Blanket		Blanket
Start	3686.4	137.74		
End	4156.7	138.96		
Gain	470.3	1.22		0.00
Efficiency	99.74%			

☒ Standard Restriction

☐ Pressure Differential

Dust Loading Curve



Air Filter Full Life Efficiency Test Report

Test #: 425
 Sample #: 15
 Filter #: KF-1063D
 Housing #: 75-5082
 Date Code:

Operator: SD
 Report Date: 11/9/2016
 Filter Mfg.:
 Housing Mfg.:



Test Description: 75-5082 PRODUCTION KIT, NO SENSORS, PLUG IN, LID ON

Test Conditions

Barometric Pressure:	28.857 in. Hg	Relative Humidity:	55 %
Air Flow Setpoint:	494 SCFM	Type of Dust:	
Test Procedure:		Batch #:	
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:	13.99 g/min
Flow Direction:		Pleat Depth:	in.

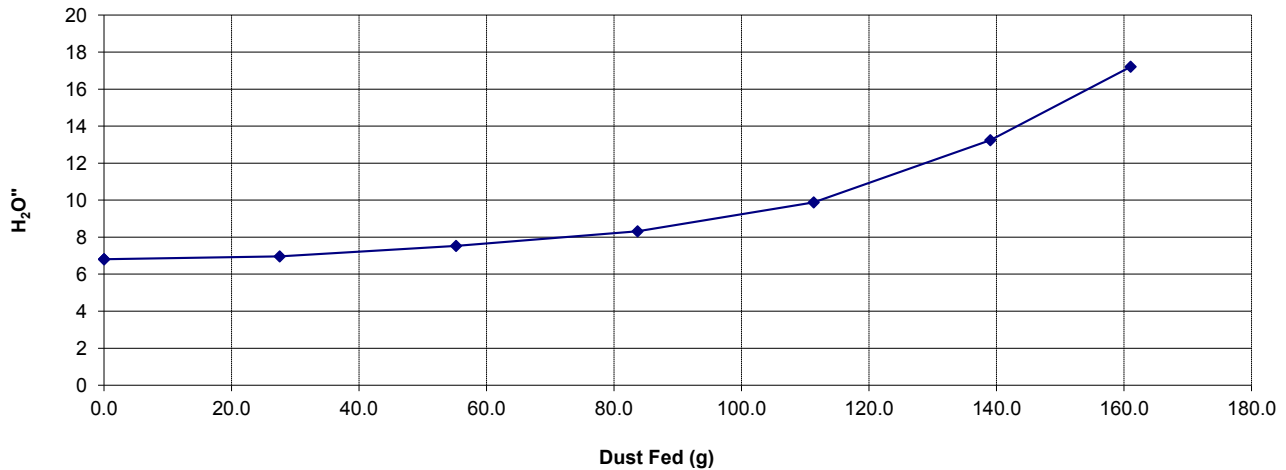
Test Results

Initial Delta P 6.76 in. H2O Accumulative Capacity: 159.90 g
 Test Time: 11.59 min

	Initial		Accumulative	
		Blanket		Blanket
Start	4171.3	138.96		
End	4331.3	140.10		
Gain		1.14		0.00
Efficiency	99.29%			

- ☒ Standard Restriction
☐ Pressure Differential

Dust Loading Curve



Air Filter Full Life Efficiency Test Report

Test #: 425
 Sample #: 16
 Filter #: KF-1063
 Housing #: 75-5082
 Date Code:

Operator: SD
 Report Date: 11/9/2016
 Filter Mfg.:
 Housing Mfg.:



Test Description: 75-5082 PRODUCTION KIT, NO SENSORS, PLUG IN, LID ON

Test Conditions

Barometric Pressure: 28.855 in. Hg
 Air Flow Setpoint: 494 SCFM
 Test Procedure:
 Air Flow Type: SCFM
 Test Endpoint: 10 in. H2O
 Number of Pleats:
 Flow Direction:

Relative Humidity: 55 %
 Type of Dust: A4 COARSE
 Batch #: 13099C
 Temperature: 70 deg. F
 Initial Add Rate: NaN g/min
 Accumulative Add Rate: 13.99 g/min
 Pleat Depth: in.

Test Results

Initial Delta P 6.74 in. H2O

Accumulative Capacity: 183.67 g
 Test Time: 13.25 min

	Initial		Accumulative	
		Blanket		Blanket
Start	4281.4	140.10		
End	4465.3	141.13		
Gain		1.03		0.00
Efficiency	99.44%			

- ☒ Standard Restriction
☐ Pressure Differential

Dust Loading Curve

