Test Report

TRANSTEX EDGE SKIRT™

(28-ft Double Trailers)

6.05 gal/1000 miles	0.52 MPG	5.47%

MESILLA VALLEY TRANSPORTATION SOLUTIONS
CERTIFIED
Fuel Economy Experts

MVT SOLUTIONS CERTIFIED™ FUEL ECONOMY TEST

June 2021

1.0: INTRODUCTION

Mesilla Valley Transportation Solutions (MVTS) certifies the fuel savings from this product are as described in this report. **Note:** this report was designed for carriers and providing information relevant to their needs. Therefore, the format varies from traditional fuel economy and technical reports. The report Summary provides the reader a quick synopsis of the product's fuel savings. Following the Summary is the body of the report and further details on the subjects. This fuel economy test was performed using MVTS proprietary fuel economy test methods. These test methods were developed from race car engineering and advanced vehicle test methods, which the Mesilla Valley Transportation (fleet) has relied on since 2012 to identify substantial fuel savings. The MVTS methods provide highly accurate and reliable answers on real-world fuel savings in comparison to other test methods, which enables carriers to make the best decisions for their company.

Contact MVTS with any questions regarding the product or test. As part of an MVTS Certified™ test, MVTS supports product inquiries, which we encourage carriers to utilize.

Note: blue text indicates a link to the topic. Click to follow. Alt + ← returns the reader to the initial location.

2.0: TEST SUMMARY

EDGE SKIRTS™ showed a fuel savings of 6.05 gal/1000 miles (5.47%) on 28-ft double trailers, which included skirt models E-1132T and E-1332T. Tests were conducted on a modern Class-8 truck single axle day cab (SADC) with 28-ft double trailers. Results are shown below in Table 1.

Table 1: Fuel Economy Test Results

Products	Fuel Economy Improvement		
	Gal/1000 miles	MPG	Percent
EDGE SKIRT	6.05	0.52	5.47%

Contents

1.0: Introduction 1
2.0: Test Summary 1
3.0: Test Procedure 4
3.1: Test Vehicles 4
3.2: Run 2: EDGE SKIRTS™ 6
3.3: Run 3: Baseline (No Aerodynamic Technologies) 7
3.4: Vehicle Fuel Economy Test Equipment 8
4.0: Test Results 9
4.1: Units of Measurement 11
4.2: Weather Conditions Summary 11
4.3: Measurement Accuracy 12
5.0: Savings Calculations 13
5.1: Fuel Savings Calculations (EDGE SKIRT™ (28-ft Double Trailers)) 13
5.2: Financial Savings Calculations (EDGE SKIRT™ (28-ft Double Trailers)) 13
5.3: Payback and ROI (EDGE SKIRT™ (28-ft Double Trailers)) 14
5.4: Technology Profit (EDGE SKIRT™ (28-ft Double Trailers)) 14
6.0: Conclusion 15
7.0: Appendix 16
7.1: Modified (*i.e*. Test) Truck/Trailer Vehicle Details 16
7.2: Compare Truck/Trailer Vehicle Details 18
7.3: Test Route 20
7.4: Weather Conditions 21
7.5: Product Details 22
7.6: Test Personnel 22
7.6a: MVT Solutions 22
7.6b: Drivers 22
7.6c: Transtex LLC 22
7.7: MVT Solutions Contact Info 22

Figures

Figure 1: Test Vehicle where Transtex Technologies were Installed 5
Figure 2: Compare Vehicle (No changes) 5
Figure 3: EDGE SKIRTS™ 6
Figure 4: Baseline Trailer Configuration (No Aerodynamics) 7
Figure 5: Aerodynamic Sensors 8
Figure 6: Data Acquisition System 8
Figure 7: Fuel Flow Meter 8
Figure 8: Tire Temp. Sensor 8
Figure 9: Fuel Savings (gal/1000 miles) 10
Figure 10: Fuel Savings (%) 10
Figure 11: EDGE SKIRT™ Fuel Consumption Bell Curve 12
Figure 12: Vehicle Info, Test Vehicle 16
Figure 13: Tire Info, Test Vehicle 17
Figure 14: Vehicle Info, Compare Vehicle 18
Figure 15: Tire Info, Compare Vehicle 19
Figure 16: Pecos Test Track 20

Tables

Table 1: Fuel Economy Test Results 1
Table 2: June 17, Test Runs 7
Table 3: Test Results with Accuracy 9
Table 4: Weather Data, June 17, 2021 21

3.0: TEST PROCEDURE

The two (2) vehicles ran simultaneously, at 65 mph, on the 9-mile circle track near Pecos, Texas. The vehicles were 1-minute apart, avoiding any aerodynamic influence on either vehicle during testing. The vehicles were termed “Compare Vehicle” and “Test Vehicle”. The Compare Vehicle remained unchanged throughout testing; it was used solely for comparison. The Test Vehicle had modifications made during the test (*i.e.* Transtex technologies installed).

The test procedure may appear similar to the SAE J1321 method traditionally used in the trucking industry; however, the MVTS methods are a much more advanced and precise form of on-road and track testing. The vehicles are equipped with sensors and data recording systems that collect data on fuel consumption, aerodynamics, rolling resistance, driver behavior and many other variables that affect fuel consumption. The data is analyzed using MVTS proprietary methods, which provide very accurate answers on fuel savings. Additionally, the test results can be scientifically translated to a carrier’s real-world daily operations and long-term savings, which is a feature unique to these methods. Overall, the MVTS test methods are a much more advanced and reliable tool for predicting fuel savings than the trucking industry has used previously.

3.1: TEST VEHICLES

Test vehicles were 2018 and 2021 International LT single axle day cabs with Cummins X15 15-Liter engines. Trailers were 28-ft dry vans. Gross Vehicle Weight (GVW) was approximately 39,160 lbs. Both trucks were equipped with Ex-Guard grill guards, which were previously tested and showed no negative influence on fuel consumption. The Compare vehicle remained unchanged throughout all tests. The Test vehicle configuration was changed between test runs. Trucks and trailers used dual tires. Tire pressures were set at 110 psi in the morning, prior to incurring any effect of daytime heat. Vehicle info can be found in the Appendix.

Vehicles were thoroughly inspected and received regular maintenance prior to testing. It should also be noted, for the reader’s peace of mind, Mesilla Valley Transportation (MVT) and MVT Solutions are 100% confident in the reliable condition of the test vehicles. MVT fleet uses the same vehicle data and test procedures for their own internal purchase decisions. **Note:** MVT fleet does not operate 28-ft dry van trailers; however, the same detail went into each test and MVTS Elite Fleets consider the same test results for their decisions.

Figure 1: Test Vehicle where Transtex Technologies were Installed

Figure 2: Compare Vehicle (No changes)

3.2: RUN 2: EDGE SKIRTS™

The test run sequence consisted of addition runs that are not included in this report. Therefore, Run 2 was the first run and consisted of the EDGE SKIRT™ being installed (Figure 3).

Figure 3: EDGE SKIRTS™

3.3: RUN 3: BASELINE (NO AERODYNAMIC TECHNOLOGIES)

Run 3 consisted of removing the EDGE SKIRT™ package and creating the Baseline configuration with no trailer aerodynamics (Figure 4).

Figure 4: Baseline Trailer Configuration (No Aerodynamics)

Table 2 below shows the test run order and times.

Table 2: June 17, Test Runs

Run	Test Name/Description	Start	End
2	EDGE SKIRTS	1:20 AM	2:59 AM
3	Baseline	3:19 AM	4:58 AM

3.4: VEHICLE FUEL ECONOMY TEST EQUIPMENT

MVT Solutions fuel economy testing utilizes a data acquisition system and sensors specifically for this testing. This style of testing is derived from race car engineering where reliable sensor data is critical to understanding vehicle modifications.

MVTS test sensors include:

- Data acquisition system (records sensor data)
- Fuel flow meter (accurate to 0.2%)
- Fuel temperature sensor
- Tire temperature sensor (infrared, mounted on left-front drive tire)
- Ground/road temperature sensor (infrared, mounted ahead of left-front drive tire)
- Wind speed air pressure sensor (truck hood)
- Wind direction sensor (truck hood)
- Ambient air temperature sensor (truck hood)
- Ambient air pressure sensor (truck cab)
- High Precision GPS (latitude, longitude, altitude, time)

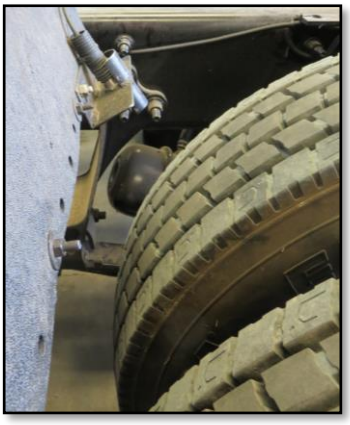
Click this link to see a video of MVTS sensors and testing: How We Test

Figure 5: Aerodynamic Sensors

Figure 6: Data Acquisition System

Figure 7: Fuel Flow Meter

Figure 8: Tire Temp. Sensor



4.0: TEST RESULTS

EDGE SKIRTS™ showed a fuel savings of **6.05 gal/1000 miles (5.47%)**, which included skirt models E-1132T and E-1332T.

Table 3: Test Results with Accuracy

Products	Fuel Economy Improvement		
	Gal/1000 miles	MPG	Percent
EDGE SKIRT	**6.05**	0.52	5.47%
Accuracy	**+/- 0.42**	+/- 0.04	+/- 0.38%

These results are shown graphically in gal/1000 miles below in Figure 9 and as a percent in Figure 10.

Figure 9: Fuel Savings (gal/1000 miles)

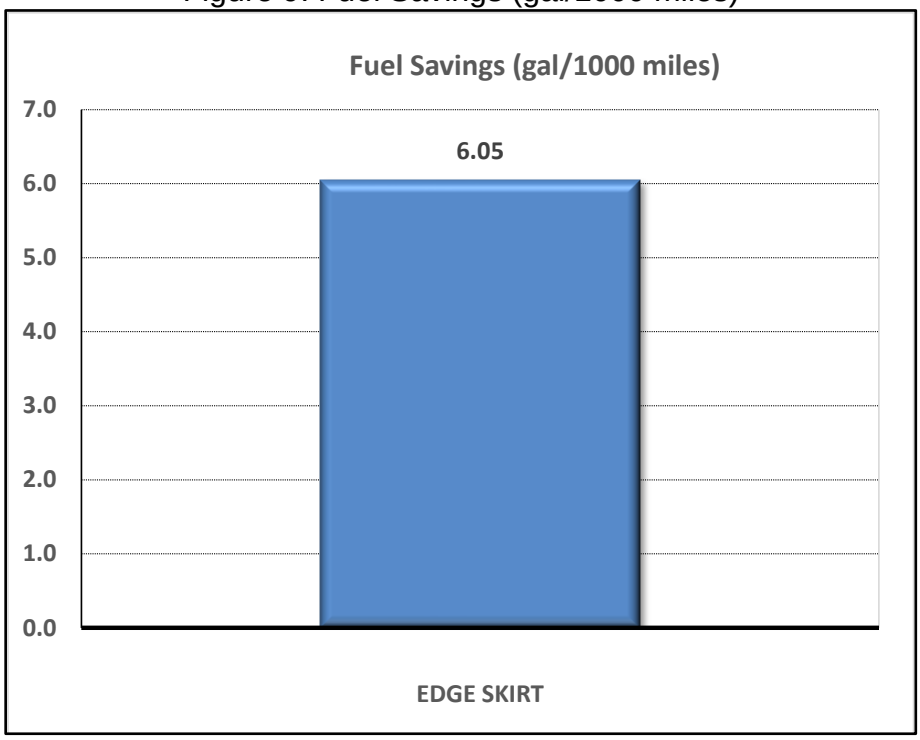
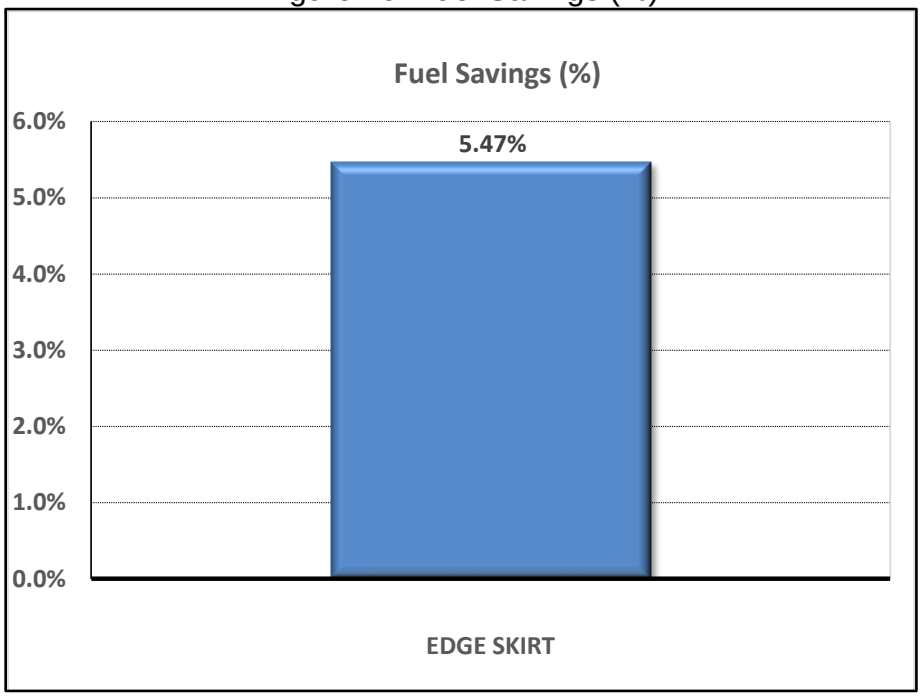


Figure 10: Fuel Savings (%)



4.1: UNITS OF MEASUREMENT

The reader may not be familiar with units of gal/1000 miles (gallons per 1000 miles) since it is not traditionally used in the trucking industry. The following paragraphs briefly explain the reasons for these units and how they help carriers better calculate fuel savings.

Units of gal/1000 miles more reliably calculate fuel savings when compared to other units such as miles-per-gallon (MPG) and percent (%). Those units are prone to error from changing variables such as vehicle baseline fuel economy, load, driver behavior, and duty cycle. For example, gal/1000 miles values are not affected by load for an aerodynamic product. Any empty Class-8 unit at 34,000 lbs. will save the same fuel in gal/1000 miles as one loaded to 80,000 lbs. However, when viewed in percent (%) or MPG the values change with load. This causes a carrier to experience varied results in real-world operation and difficulty predicting the financial benefits of the product unless units of gal/1000 miles are used.

Units of gal/1000 miles are the most reliable units of measurement for aerodynamic fuel savings due to their scientific and mathematical relationship to fuel consumption. Further detail is beyond the scope of this report and the reader is encouraged to contact MVT Solutions if more information is desired.

4.2: WEATHER CONDITIONS SUMMARY

Temperatures ranged from 73°F to 78°F. Winds were reported from 5-7 mph by a local weather station. It should be noted that the MVTS test methods account for these variables and their effects on fuel savings. Therefore, the range in climate conditions did not impede the test results shown in this report. Complete weather data can be found in the Appendix.

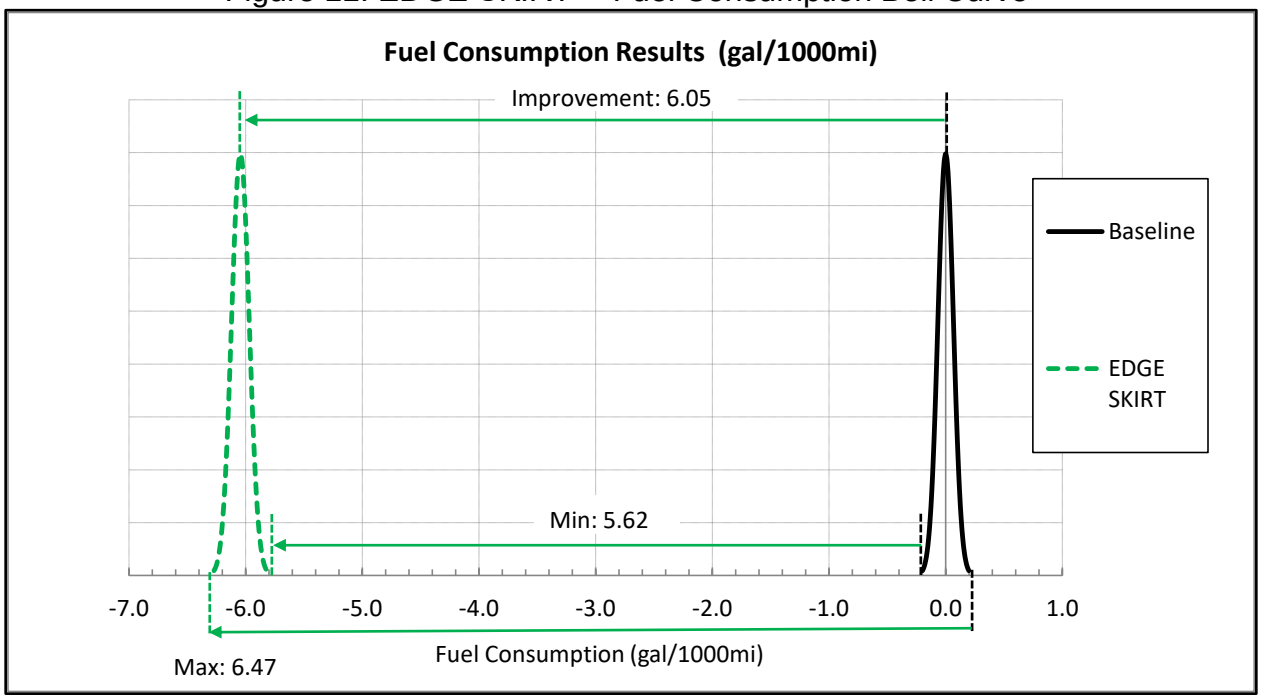
4.3: MEASUREMENT ACCURACY

The accuracy of fuel economy measurements is critical in determining the trustworthiness of test results. Historically, this has been a major difficulty in the trucking industry with fuel economy testing, which has led to confusion and misleading results. The MVTS test methods overcome this issue by achieving better accuracy, which is one of the ways it provides more reliable test results.

Accuracy for all the tests was calculated using a 95% confidence interval, a common standard for testing measurement. 95% confidence interval indicates that if the test were repeated 100 times, values would fall within the range in 95 out of the 100 tests (*i.e.* the reader would be 95% confident the value would be within that range).

Figure 11 below shows the statistical bell curves of EDGE SKIRT™ on 28-ft double trailers. The Baseline run and EDGE SKIRT™ run clearly show two separate bell curves, indicating the test had valid accuracy and results were reliable. The graph shows the arrow pointing to the left, illustrating less fuel used (*i.e.* fuel savings). The distance between the peaks of the bell curves is the test result average, which was a fuel savings of 6.05 gal/1000 miles. Minimum and maximum values were calculated as the test result plus or minus the accuracy values (6.05 +/- 0.42), which were 6.47 and 5.62 gal/1000 miles, respectively.

Figure 11: EDGE SKIRT™ Fuel Consumption Bell Curve



5.0: SAVINGS CALCULATIONS

Below is a brief outline of how to use the test results to calculate savings. For more detail or assistance contact MVT Solutions.

5.1: FUEL SAVINGS CALCULATIONS (EDGE SKIRT™ (28-FT DOUBLE TRAILERS))

Fuel savings resulting from this test can be calculated as follows:

$$Fuel\ Savings\ (gal/year) = (Test\ result)\ x\ \frac{(Thousands\ of\ miles\ travelled\ per\ year)}{1000}$$

Test result must be in units of gal/1000 miles (*i.e.* not percent or MPG)

Example: EDGE SKIRT™ fuel savings of 6.05 gal/1000 miles and 125,000 miles travelled annually:

$$Fuel\ Savings = (6.05\ gal/1000\ miles)x\ \frac{(125{,}000\ miles/year)}{1000} = 756\ gal/year$$

Therefore, EDGE SKIRT™ on 28-ft doubles would save 756 gallons of fuel per year for this vehicle travelling 125,000 miles.

5.2: FINANCIAL SAVINGS CALCULATIONS (EDGE SKIRT™ (28-FT DOUBLE TRAILERS))

Financial calculations can be made by multiplying the fuel saved by the fuel price:

$$Savings\ (\$/year) = (Fuel\ Savings)\ x\ (Price\ of\ fuel)$$

Example: Using the example above and U.S. average retail price of diesel fuel in 2020, $2.551[1] /gal.

$Savings\ (\$/year) = \left(756\ \frac{gal}{year}\right)\ x\ \left(\frac{\$2.551}{gal}\right) = \$1{,}928\ /year$ in fuel savings

Therefore, EDGE SKIRT™ would save $1,928 per year in fuel for the vehicle travelling 125,000 miles.

[1] Source: https://www.eia.gov/dnav/pet/hist/LeafHandler.ashx?n=PET&s=EMD_EPD2DXL0_PTE_NUS_DPG&f=W

5.3: PAYBACK AND ROI (EDGE SKIRT™ (28-FT DOUBLE TRAILERS))

Buyers of fuel economy technologies are highly interested in saving money. For a technology supplier to be successful, their technology must save their potential customers money and many fleets consider the number of months required for the technology to pay for itself as a buying qualification, which is referred to as 'payback' in trucking or sometimes ROI.

$$Payback\ (months) = \frac{(Product\ cost)}{(Savings\ (\$/year)}\ x\ (12\ months/year)$$

Example @$500 Product cost, 4:1 trailer to tractor ratio: **Note**: The Product Cost is an example value only. Contact a Transtex sales representative or trailer OEM for pricing.

$$Payback\ (months) = \frac{4x\ (\$500)}{(\$1{,}928\ /year)}\ x\ \left(12\frac{months}{year}\right) = 12.4\ months$$

Note: '4x' is used in the Product Cost to account for a 4:1 trailer ratio using double trailers.

Therefore, with a Product Cost of $500 and 4:1 trailer ratio, EDGE SKIRT™ would pay for itself (*i.e.* payback or ROI) in 12.4 months.

5.4: TECHNOLOGY PROFIT (EDGE SKIRT™ (28-FT DOUBLE TRAILERS))

Since saving money is the end goal, calculating profit is another important factor. **Note**: these calculations will consider fuel and purchase price only and not maintenance.

$$Profit\ (\$) = (Savings) - (Cost)$$

Example @$500 Product cost, 4:1 trailer ratio: Using annual values from above and a 5 year trailer life.

$Profit\ (\$) = (\$1{,}928) - \frac{4x\ (\$500)}{5\ year}$ = $1,528 saved per year, per power unit.

If this were translated to a 1000-truck fleet, the profits would be $1.528M annually.

Therefore, the EDGE SKIRT™ on 28-ft double trailers would add $1,528 in profit per vehicle with 125,000 miles in travel. For a fleet of 1000 vehicles, this would equate to $1.528M.

6.0: CONCLUSION

MVTS testing proved the fuel savings of the EDGE SKIRT™ package with answers that were clear and precise.

EDGE SKIRT™ on 28-ft double trailers showed a fuel savings of **6.05 gal/1000 miles (5.47%)**. These are substantial fuel savings values that would interest any fleet concerned with fuel economy improvements and profit.

Financially, the EDGE SKIRT™ on 28 ft double trailers would equate to $1,528 per power unit per year. For a 1000-truck fleet, this would equate to $1.528M in annual profit. These are substantial savings. **Note:** values will depend on product cost, trailer ratio, price of fuel, and many other variables. Contact MVTS for questions or assistance in calculating.

The test values shown can be used to estimate a carrier's savings in real-world operations. More precision can be obtained by using a carrier's vehicle and duty cycle information. Contact MVT Solutions for assistance or more information.

7.0: APPENDIX

7.1: MODIFIED (*I.E.* TEST) TRUCK/TRAILER VEHICLE DETAILS

Figure 12: Vehicle Info, Test Vehicle

Date	June 15, 2021						
Company	Saia LTL						
Location	Pecos, Texas						
Test Route	Pecos 9-mile Test Track						
TRUCK ID:	**Veh. B, 204534**						
Brand	International						
Date of Manufacture	12/2018						
Model	LT Day Cab SA						
Engine	Cummins X15						
VIN	3HSDYAPN7LN806843						
Mileage (miles):	284,576						
Transmission	N/A						
Rear Gear	N/A						
Fuel Load	Full						
Fuel Type & Batch	No. 2 Diesel						
Axle Weights	10,200	11440	7,980	9540			
Total weight	39,160						
Photo/Video/Audio folder name:							
TRAILER ID:	**B, 292250**						
Model	Wabash						
VIN	1JJV281D8KL133503						
Date of Manufacture	07/2018						
Model	Dry Van, TRA REM VAN DVDBHPC						
Size	28-ft						
Tractor to Trailer Gap	27 inches						
Add-ons	Transtex EDGE SKIRTS						
28-ft double trailer configuration							
TRAILER ID:	**290720**						
Model	Great Dane						
VIN	1GRAP5612HK269054						
Date of Manufacture	01/2016						
Model	CCP-3311-02028						
Size	28-ft						
Trailer to Trailer Gap	48 inches						
Add-ons	Transtex EDGE SKIRTS						
28-ft double trailer configuration							

Figure 13: Tire Info, Test Vehicle

TIRES

Truck **Veh. B, 204534**

LF:		**Front Axle Tires**		RF: Same
Bridgestone R284		Type		Bridgestone R284
295/75R22.5		Size		295/75R22.5
17/32		Tread Depth (inches)		18/32
110		Pressure (psi)		110

LF-Outer Drive:	LF-Inner Drive:	**Drive Axle Tires**	RF-Inner Drive:	RF-Outer Drive
Michelin X Line XDA Energy +	Michelin X Line XDA Energy +	Type	Michelin X Line XDA Energy +	Michelin X Line XDA Energy +
275/80R22.5	275/80R22.5	Size	275/80R22.5	275/80R22.5
19/32	19/32	Tread Depth (inches)	19/32	19/32
110	110	Pressure (psi)	110	110

Trailer **B, 292250**

LR-Outer Trailer:	LR-Inner Trailer:	**Tandem Rear**	RR-Inner Trailer	RR-Outer Trailer
Bridgestone R123	Bridgestone R123	Type	Bridgestone R123	Bridgestone R123
295/75R22.5	295/75R22.5	Size	295/75R22.5	295/75R22.5
9/32	8/32	Tread Depth (inches)	9/32	11/32
110	110	Pressure (psi)	110	110

Trailer **290720**

LF-Outer Trailer:	LF-Inner Trailer:	**Tandem Front**	RF-Inner Trailer	RF-Outer Trailer
Continental EcoPlus HT3	Continental EcoPlus HT3	Type	Continental EcoPlus HT3	Continental HDR2
295/75R22.5	295/75R22.5	Size	295/75R22.5	295/75R22.5
9/32	8/32	Tread Depth (inches)	10/32	10/32
110	110	Pressure (psi)	110	110

LR-Outer Trailer:	LR-Inner Trailer:	**Tandem Rear**	RR-Inner Trailer	RR-Outer Trailer
Bridgestone R197	Bridgestone R197	Type	Bridgestone R283	Bridgestone R283
295/75R22.5	295/75R22.5	Size	295/75R22.5	295/75R22.5
7/32	6/32	Tread Depth (inches)	9/32	8/32
110	110	Pressure (psi)	110	110

7.2: COMPARE TRUCK/TRAILER VEHICLE DETAILS

Figure 14: Vehicle Info, Compare Vehicle

Date	June 15, 2021						
Company	Saia LTL						
Location	Pecos, Texas						
Test Route	Pecos 9-mile Test Track						
TRUCK ID:	**Veh. A, 224092**						
Brand	International						
Date of Manufacture	02/2021						
Model	LT Day Cab SA						
Engine	Cummins X15						
VIN	3HSDYAPN9NN154620						
Mileage (miles):	2,321						
Transmission	N/A						
Rear Gear	N/A						
Fuel Load	Full						
Fuel Type & Batch	No. 2 Diesel						
Axle Weights	10,200	11440	7,980	9540			
Total weight	39,160						
Photo/Video/Audio folder name:							
TRAILER ID:	**A, 292259**						
Model	Wabash						
VIN	1JJV281D9KL133512						
Date of Manufacture	07/2018						
Model	Dry Van, TRA REM VAN DVDBHPC						
Size	28-ft						
Tractor to Trailer Gap	27 inches						
Add-ons	Michelin Energy Guard skirts						
28-ft double trailer configuration							
TRAILER ID:	**292776**						
Model	Hyundai						
VIN	3H3V281C7LT403197						
Date of Manufacture	02/2021						
Model	VC2280141-FJPRW						
Size	28-ft						
Trailer to Trailer Gap	48 inches						
Add-ons	Michelin Energy Guard skirts						
28-ft double trailer configuration							

Figure 15: Tire Info, Compare Vehicle

TIRES

Truck **Veh. A, 224092**

LF:		**Front Axle Tires**		RF: Same
Bridgestone R284		Type		Bridgestone R284
295/75R22.5		Size		295/75R22.5
17/32		Tread Depth (inches)		18/32
110		Pressure (psi)		110

LF-Outer Drive:	LF-Inner Drive:	**Drive Axle Tires**	RF-Inner Drive:	RF-Outer Drive
Michelin X Line XDA Energy +	Michelin X Line XDA Energy +	Type	Michelin X Line XDA Energy +	Michelin X Line XDA Energy +
275/80R22.5	275/80R22.5	Size	275/80R22.5	275/80R22.5
19/32	19/32	Tread Depth (inches)	19/32	19/32
110	110	Pressure (psi)	110	110

Trailer **A, 292259**

LR-Outer Trailer:	LR-Inner Trailer:	**Tandem Rear**	RR-Inner Trailer	RR-Outer Trailer
Continental Eco Plus HS3	Continental Eco Plus HS3	Type	Breidgestone R123	Breidgestone R123
295/75R22.5	295/75R22.5	Size	295/75R22.5	295/75R22.5
9/32	8/32	Tread Depth (inches)	9/32	11/32
110	110	Pressure (psi)	110	110

Trailer **292776**

LF-Outer Trailer:	LF-Inner Trailer:	**Tandem Front**	RF-Inner Trailer	RF-Outer Trailer
Breidgestone R123	Breidgestone R123	Type	Breidgestone R123	Continental HDR2
295/75R22.5	295/75R22.5	Size	295/75R22.5	295/75R22.5
11/32	11/32	Tread Depth (inches)	10/32	10/32
110	110	Pressure (psi)	110	110

LR-Outer Trailer:	LR-Inner Trailer:	**Tandem Rear**	RR-Inner Trailer	RR-Outer Trailer
Bridgestone R197	Bridgestone R197	Type	Bridgestone R197	Bridgestone R197
295/75R22.5	295/75R22.5	Size	295/75R22.5	295/75R22.5
7/32	6/32	Tread Depth (inches)	9/32	8/32
110	110	Pressure (psi)	110	110

7.3: TEST ROUTE

Pecos, Texas 9-mile circle track. Clockwise direction, middle lane (of 3).

Figure 16: Pecos Test Track

7.4: WEATHER CONDITIONS

Weather during testing was moderate with winds from 5-7 mph. Weather data was acquired from a local Weather Underground weather station. Source shown below.

The reader should be aware that MVTS methods include instantaneous and constant weather data acquisition on each vehicle, and this testing has minimal dependency on external weather data collection. MVTS test data accounts for changes in wind, temperature, and other pertinent variables instantaneously. **Note:** darkened rows pertain to test times.

Table 4: Weather Data, June 17, 2021

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Condition
12:15 AM	81 °F	50 °F	34%	ESE	7 mph	0 mph	27.37 in	0.0 in	Fair
1:15 AM	80 °F	50 °F	36%	E	8 mph	0 mph	27.37 in	0.0 in	Fair
2:15 AM	79 °F	53 °F	40%	ESE	8 mph	0 mph	27.36 in	0.0 in	Fair
3:15 AM	77 °F	53 °F	42%	ESE	5 mph	0 mph	27.36 in	0.0 in	Fair
4:15 AM	75 °F	53 °F	47%	NE	6 mph	0 mph	27.36 in	0.0 in	Fair
5:15 AM	73 °F	53 °F	49%	ESE	3 mph	0 mph	27.36 in	0.0 in	Fair
6:15 AM	72 °F	55 °F	55%	ENE	3 mph	0 mph	27.36 in	0.0 in	Fair
7:15 AM	72 °F	56 °F	58%	NE	6 mph	0 mph	27.36 in	0.0 in	Fair
8:15 AM	76 °F	59 °F	56%	E	8 mph	0 mph	27.38 in	0.0 in	Fair
9:15 AM	81 °F	60 °F	50%	E	7 mph	0 mph	27.39 in	0.0 in	Fair
10:15 AM	86 °F	60 °F	42%	E	6 mph	0 mph	27.40 in	0.0 in	Fair
11:15 AM	89 °F	58 °F	34%	ENE	5 mph	0 mph	27.39 in	0.0 in	Fair
12:15 PM	92 °F	50 °F	24%	E	5 mph	9 mph	27.38 in	0.0 in	Fair
1:15 PM	93 °F	50 °F	23%	ENE	7 mph	17 mph	27.37 in	0.0 in	Fair
2:15 PM	97 °F	40 °F	14%	ESE	9 mph	21 mph	27.35 in	0.0 in	Fair
3:15 PM	98 °F	42 °F	15%	E	17 mph	24 mph	27.33 in	0.0 in	Fair
4:15 PM	99 °F	41 °F	14%	E	17 mph	24 mph	27.32 in	0.0 in	Fair
5:15 PM	98 °F	40 °F	13%	E	7 mph	0 mph	27.30 in	0.0 in	Fair
6:15 PM	98 °F	42 °F	15%	ESE	14 mph	29 mph	27.29 in	0.0 in	Fair
7:15 PM	96 °F	42 °F	16%	E	23 mph	0 mph	27.27 in	0.0 in	Fair / Windy
8:15 PM	94 °F	43 °F	17%	E	15 mph	0 mph	27.29 in	0.0 in	Fair
9:15 PM	91 °F	44 °F	20%	E	13 mph	0 mph	27.30 in	0.0 in	Fair
10:15 PM	87 °F	47 °F	24%	E	12 mph	0 mph	27.32 in	0.0 in	Fair
11:15 PM	84 °F	47 °F	28%	ESE	8 mph	0 mph	27.34 in	0.0 in	Fair
12:15 AM	80 °F	48 °F	33%	ESE	7 mph	0 mph	27.35 in	0.0 in	Fair
1:15 AM	78 °F	52 °F	40%	SE	7 mph	0 mph	27.35 in	0.0 in	Fair
2:15 AM	77 °F	54 °F	44%	SE	5 mph	0 mph	27.36 in	0.0 in	Fair
3:15 AM	73 °F	53 °F	49%	SE	6 mph	0 mph	27.35 in	0.0 in	Fair
4:15 AM	73 °F	54 °F	52%	SE	7 mph	0 mph	27.34 in	0.0 in	Fair
5:15 AM	70 °F	53 °F	55%	ESE	5 mph	0 mph	27.34 in	0.0 in	Fair
6:15 AM	69 °F	54 °F	58%	E	3 mph	0 mph	27.35 in	0.0 in	Fair
7:15 AM	67 °F	54 °F	62%	E	3 mph	0 mph	27.36 in	0.0 in	Fair
8:15 AM	72 °F	55 °F	56%	ESE	5 mph	0 mph	27.36 in	0.0 in	Fair
9:15 AM	78 °F	56 °F	47%	E	6 mph	0 mph	27.37 in	0.0 in	Fair
10:15 AM	84 °F	55 °F	36%	ESE	3 mph	0 mph	27.37 in	0.0 in	Fair
11:15 AM	88 °F	48 °F	25%	ESE	9 mph	0 mph	27.36 in	0.0 in	Fair
12:15 PM	91 °F	45 °F	20%	ESE	8 mph	0 mph	27.36 in	0.0 in	Fair
1:15 PM	94 °F	44 °F	18%	ESE	14 mph	17 mph	27.33 in	0.0 in	Fair
2:15 PM	96 °F	42 °F	15%	E	9 mph	18 mph	27.31 in	0.0 in	Fair
3:15 PM	97 °F	39 °F	13%	SE	13 mph	18 mph	27.29 in	0.0 in	Fair
4:15 PM	98 °F	38 °F	12%	SE	8 mph	17 mph	27.27 in	0.0 in	Fair
5:15 PM	97 °F	39 °F	14%	SE	8 mph	22 mph	27.26 in	0.0 in	Fair
6:15 PM	97 °F	41 °F	15%	E	14 mph	0 mph	27.25 in	0.0 in	Fair
7:15 PM	96 °F	42 °F	15%	ESE	15 mph	0 mph	27.24 in	0.0 in	Fair
8:15 PM	93 °F	44 °F	18%	E	18 mph	22 mph	27.24 in	0.0 in	Fair
9:15 PM	89 °F	46 °F	22%	ESE	18 mph	0 mph	27.25 in	0.0 in	Fair
10:15 PM	86 °F	49 °F	27%	ESE	15 mph	0 mph	27.26 in	0.0 in	Fair
11:15 PM	84 °F	48 °F	28%	ESE	14 mph	0 mph	27.29 in	0.0 in	Fair

Source: https://www.wunderground.com/history/daily/us/tx/pecos/KPEQ/date/2021-6-17

7.5: Product Details

- EDGE SKIRT™
  https://transtex-llc.com/

7.6: Test Personnel

7.6a: MVT Solutions

- Daryl Bear, Lead Engineer & COO
- Jacob Schwartz, Test Engineer
- Jonathan Ruppert, Test Engineer

7.6b: Drivers

- Allan Dahringer
- Seth Knight
- Carlos Aragon
- Jack Burchell

7.6c: Transtex LLC

- Mathieu Boivin, Founder & CEO
- Pierre-Yves Lacroix, Engineering Director

7.7: MVT Solutions Contact Info

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