

PIT Group – Fuel Consumption Test Results for the TopKit® & Skirt

Background

In June of 2018, PIT Group (FPInnovations) conducted testing to evaluate the overall reduction in fuel consumption provided by the EDGE TopKit® and an industry standard aerodynamic side skirt.

Type of Test

Testing was based on the SAE J1321 Fuel Consumption Test Procedure- Type II.

Test Facility

PIT Group conducted testing at the Transport Canada Motor Vehicle Test Centre located in Blainville (QC), Canada. The tests were run on the BRAVO high-speed test track with a high-banked parabolic oval of 4.15 miles in length. Each test run comprised of 13 laps (54 miles) with departure and arrival at the same position along the track.

Test Vehicles

Test and control vehicles were 2016 International Prostar tractors pulling MY2018 53 ft. dry van semi-trailers equipped with SmartWay® Verified tires.

Test results

Aerodynamic Devices	Fuel Savings %	Range*
EDGE TopKit® with Aerodynamic Side Skirt	6.38 ± 0.46	6-7%

*This range is based on results from multiple testing methods, vehicle configurations and operating conditions.

Test results for the EDGE TopKit® and a standard side skirt bundle closely resemble results for side skirts and commonly used 3 ft. aerodynamic tail device combinations.

