

CASE STUDY



OPTIMIZE YOUR AIR SYSTEM

ST. PAUL, MN DIVISION LARGE NATIONAL WASTE HAULER

COMPANY OVERVIEW

A large national waste hauler with a fleet of vehicles dedicated to daily pick up of waste and recycling for residential and business customers. The St. Paul, MN division has a fleet of 100 vehicles to service their customers.

CHALLENGES

When a waste hauling vehicle is on it's route the driver is applying the brakes at regular intervals. These brake applications cause the air system's compressor to run frequently throughout the day. Each time the compressor runs moisture is created and collected in the service tanks of the vehicle.

- Newer trucks were experiencing freeze up in line before the air dryer
- Multiple trucks could be down at the same time resulting in delayed service and over-time
- This shop estimates the cost of a freeze up event to be \$180-\$270 minimum if the freeze up occurs in the yard, more if a road call is required

SOLUTION

The Expello Automatic Drain Valve (ADV) removes moisture, oil and other contaminants from compressed air systems every 5 minutes of vehicle on time.

Easy to install, it takes about 20 minutes to complete

Maintenance free, durable construction

Thermostatically controlled heater

Regular 5 minute purge cycle

RESULTS

Prior to the installation of the Expello valve a steady flow of moisture was observed when manually draining the wet tank after adding the Expello valve no moisture was present when draining the tanks. The pilot program completely eliminated freeze up events for vehicles outfitted with an Expello drain valve. Vehicles equipped with a competing automatic drain valve and those with no ADV were both prone to freeze up.

Pilot program is a success; company will begin to outfit fleet with Expello Automatic Drain Valves

Multiple freeze ups over winter 2014 on non Expello fitted vehicles cost the company time and money

No freeze ups on vehicles with Expello valves



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