



# Truck Engineering

## CASE STUDY

### Truck design enhances productivity and lowers costs

The customer operated a fleet of tractor trailers to haul product in regional areas across the United States. They struggled with a lack of standardization across their fleet and complying to legal standards.

A “spring thaw” in northern Midwest states requires trucks to reduce axle weight during spring months to protect roadways. To ensure compliance, the company either had to find a way to reduce axle weight or had to avoid the specified state highways during that time period – impacting their customer service, productivity and costs.

#### Our Solution

Element Fleet Management studied the situation and took all technical, budgetary and legal factors into account to recommend a new design for the customer’s trailers. The design redistributed the weight load from the trailer to the tractor through the utilization of a 5th wheel type design.

#### Impact

The company now has a standard design for all future truck orders that are the right fit for their fleet needs, with correct power train, horsepower, etc. The new standardized trailer design has a lower cost of investment and meets legal requirements.



**Lower costs and higher productivity**  
through new truck trailer design

#### FLEET PROFILE

**Industry**  
Construction

**Type**  
Service/delivery fleet200 tractor trailers

**Total fleet size**  
800

#### Services utilized

- Accident
- Acquisition
- Financing
- Fleet Partnership Solutions
- Fuel
- Maintenance
- Telematics
- Title, Licensing & Registration

