



## Preventing Battery Terminal Corrosion

**Application:** Battery, Starter, Alternator Terminals, Grounding Straps

**Location:** USA

### Challenge

Commercial vehicles are operated for extensive periods of time under a variety of environmental conditions and depend on reliable components that require shortened and/or infrequent servicing. These vehicles are continuously exposed to road spray, which in the winter contains corrosive salts and chemicals. If a battery or starter terminal were to become corroded, it could cause unwanted downtime as the driver would be unable to start the vehicle or the electronics controls would fail to operate properly. A Commercial Vehicle OEM specializing in Class 6, 7, and 8 trucks approached us in search of a lubricant with the right water spray resistance properties to extend the life of their battery, starter and alternator terminals, and ground straps to protect them from corrosion.

- Can we provide a lubricant that exhibits excellent water spray resistance while also protecting the terminals from road salt, humidity, and water?
- Can we provide a lubricant that stays in place and exhibits limited oil separation?

### Solution

NYOGEL® 760G is a silica thickened, medium viscosity, synthetic hydrocarbon grease with excellent water spray resistance, superior corrosion protection, and low oil separation. This grease provides lifetime lubrication for lasting connections.

### Results

Our research and development teams completed 30-day salt spray and cyclic corrosion testing on both nickel brass and tin copper terminals. After testing several greases in our line of connector lubricants, the customer decided to go with NYOGEL® 760G as it passed their corrosion and water spray requirements at an appropriate price point.

### Advantages

Excellent water spray resistance

Superior corrosion protection

Low oil separation