

## REDUCING NOISE IN STEERING COLUMNS

**INDUSTRY:**  
Automotive

**APPLICATION:**  
Steering Column

**COMPONENT:**  
Spline

**LOCATION:**  
Michigan



### BACKGROUND

When it comes to automotive steering systems, the spline is responsible for accommodating the motion from the steering column as it moves separately from the vehicle's suspension. Without the proper lubricant, this motion will cause drivers to hear a stick/slip noise. A leader in the production of advanced automotive steering, driveline, and automated driving technologies came to Nye in search of a lubricant that would eliminate a stick/slip issue that they were experiencing within their steering column splines.

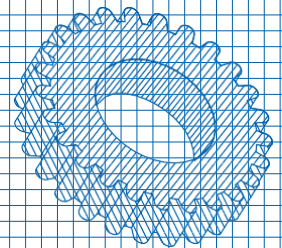
### CHALLENGE

- Can the lubricant reduce noise coming from slip/stick in steering column splines?

### SOLUTION FLUOROCARBON GEL 866

A PTFE thickened, light viscosity, synthetic hydrocarbon grease.

- Greatly reduces the stick/slip noise
- Rust-inhibited



### RESULTS

Ultimately, the customer decided to go with Fluorocarbon Gel 866 after it performed in the desired temperature range, met their durability requirements, and eliminated the stick/slip noise. The customer has remained satisfied with the product's performance within their steering column splines.

Base Oil Properties	Conditions	Fluorocarbon Gel 866	Test Method
Chemistry		PTFE / Polyalphaolefin	
Temperature Range		-54 to 125°C	
Kinematic Viscosity	40°C	30.7 cSt	ASTM D-445
Viscosity Index		144	ASTM D-2270
<b>Grease Properties</b>			
NLGI Grade		2.5	ASTM D-217
Oil Separation	24 hrs, 100°C	1.8%	FTM 791 Method 321.2
Evaporation	24 hrs, 100°C	0.08%	NYE CTM

Since 1844: Our performance is reflected in the value we bring to our customers.

Nye Lubricants is a leader in the innovation, formulation and provision of synthetic lubricants, enabling and improving breakthrough products and critical new technologies. We bring proven experience, deep technical knowledge and customer focus to solve our customers' toughest challenges, adding tangible value to products in a wide range of industries and applications.

## Nye Lubricants, Inc.

12 Howland Road  
 Fairhaven, MA 02719 USA  
 Ph: +1.508.996.6721  
 Email: [contact@nyelubricants.com](mailto:contact@nyelubricants.com)



[NyeLubricants.com](http://NyeLubricants.com)

Dulub Co., Ltd. [www.dulub.com.tw](http://www.dulub.com.tw) tel : 886-7-536 5500

