# Case Study

# NYE LUBRICANTS SUCCESS STORIES

# **CHALLENGES**

- Can a synthetic grease from Nye outperform the petroleum-based grease?
- Can a single grease meet the requirements of all the moving parts of the window lift system?

- 1. Nye recommended using PAO-based greases because they demonstrate a longer operating life and function over a broader operating temperature range than petroleum.
  - Life testing verified that the

40°C

4. verify the Nye greases could lubricate all moving parts of the window system.

## RESULTS

Base Oil

Thickener

**Lubricant Properties** 

**Temperature Range** 

Rheolube® 368F proved to be superior in temperature and longevity over all PAO-based products tested and was chosen to replace the petroleum product. 368F was also able to lubricate all moving parts of the window lift system. Rheolube® 368F has now become the lubricant of choice for this company, as it is used in automotive cables, door locks, and HVAC systems.

Rheolube® 368F

PA0

Lithium Soap -40 to 125°C

203 45 cSt

Nye Lubricants, Inc. 12 Howland Road Fairhaven, MA 02719 USA NyeLubricants.com			
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SRV, Step Load (75°C, 50Hz)		733 N	ASTM D-1478
Penetration	Worked (10,000X)	295	ASTM D-217
	Worked (60X)	306	
	Unworked	294	
NLGI Grade		1.5	ASTM D-217
Killematic viscosity	100°C	24.68 cSt	A311VI D-443
Kinomatia Viacoaity	10 0	200110 000	

For more information. contact our technical expert.

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# SOLUTION

- Samples were given to the company 2. for testing.
- 3. petroleum-based product did not last as long as the PAO-based Nye lubricants.
- Low temperature torque tests and material compatability tests were performed on the samples to







**Test Method** 



**CONFIDENTIAL** 

**Industry:** Automotive

**Component:** Cable

BACKGROUND

Location: China

**Application:** Window Lift System

Time Period: May 2007 - July 2009

A growing Chinese company that specializes in auto manufacturing

took part in a Nye lube seminar.

The company was interested in

learning more about how synthetic

lubricants can improve quality and

extend the operating life of their applications. They introduced Nye

to their window lift application

that is run on a cable system. The

lift was using a petroleum-based

to replace.

product that the company wanted

Since 1844