



MOTION CONTROL GREASE FOR SUN VISORS

INDUSTRY:
Automotive

APPLICATION:
Sun Visor

COMPONENT:
Bracket/Retaining
Spring

LOCATION:
United Kingdom



BACKGROUND

Interior automotive components often require a lubricant to reduce noise and control motion in order to improve the functionality and perceived quality of the design. An Automotive OEM one of Nye's affiliates, with an aftermarket issue they were having with their sun visor design. The tight tolerances in the visor generated a great deal of friction between the sun visor bracket and the metal retaining cylinder and spring. In order to move the visor, passengers needed to exert excessive force which was causing premature wear to the plastic components. The tight tolerances were creating a creaking noise as well that was unpleasant for the driver. The OEM needed a plastic-compatible grease to make the sun visor both easier and quieter to open.

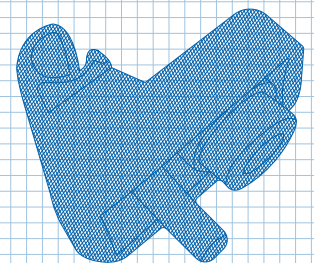
CHALLENGES

- Can Nye provide a grease that enables smooth, noise-free operation?
- Can Nye provide a plastic-compatible, odorless grease that will not migrate and can be dispensed by hand?

SOLUTION NYOGEL[®] 774L

A silica thickened, light viscosity, synthetic hydrocarbon grease.

- Light viscosity grease prevents wear in lightly loaded applications
- Compatible with most plastics and elastomers
- Good stay-in-place properties, low oil separation
- Odorless to accommodate proximity to driver



RESULTS

Our affiliate recommended that the OEM try NyoGel[®] 774L, a light viscosity grease from our line of motion control greases. After applying a sample of the grease to the bracket/retaining spring of the sun visor, it required much less force to move and the creaking noise was eliminated. The affiliate was also able to provide NyoGel[®] 774L in a syringe for easy repairs and hand-held dispensing. The OEM was so satisfied with its performance that they issued a service bulletin to aftermarket dealerships recommending the use of NyoGel[®] 774L for their sun visor design.

Typical Properties

Base Oil Properties	Conditions	NyoGel® 774L	Test Method
Chemistry	–	PAO/Silica	–
Temperature Range	–	–40 to 120 °C	–
Kinematic Viscosity	40 °C	2003.62 cSt	ASTM D445
	100 °C	217.64 cSt	ASTM D445
Viscosity Index	–	245	ASTM D2270
Grease Properties			
Penetration (1/10 mm)	Unworked	267	ASTM D217
	Worked (60X)	287	ASTM D217
NLGI Grade	–	2	ASTM D217
Oil Separation	22 h, 150 °C	1.3%	ASTM D6184
Evaporation	22 h, 150 °C	0.2%	CTM*

*CTM: Nye Company Test Method

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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.

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