



LEAKAGE PROTECTION IN WASHING MACHINES

INDUSTRY:

Appliance

APPLICATION:

Top Load Washing
Machines

COMPONENT:

Gears

LOCATION:



BACKGROUND

Washing machines and other appliances that operate at high loads often require additional protection from friction to prevent wear. A leading appliance manufacturer came to Nye after they noticed that the lubricant used in their gear assembly was leaking into the interior of their top-loading washing machine. This manufacturer needed Nye to replace the existing competitor's lubricant with a water-resistant grease.

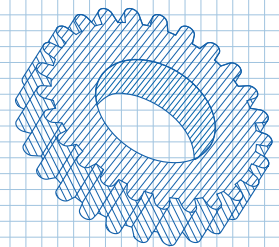
CHALLENGE

- Can the lubricant protect gears from wear without leaking into the drum?

SOLUTION INSTRUMENT GREASE 794A

A clay thickened, medium viscosity, ester blend grease.

- Great for high load applications
- Good water resistance
- Excellent wide temperature performance of -20 to 150°C



RESULTS

Instrument Grease 794A is now used in this customer's top-loading washing machine after successfully passing their validation tests.

| Base Oil Properties | Conditions | Instrument Grease 794A | Test Method |
|--------------------------|---------------|------------------------|-------------|
| Chemistry | | PAO / Ester / Clay | |
| Temperature Range | | -20 to 150°C | |
| Kinematic Viscosity | 40°C | 440 cSt | ASTM D-445 |
| Viscosity Index | | 105 | ASTM D-2270 |
| Grease Properties | | | |
| NLGI Grade | | 2 | ASTM D-217 |
| Oil Separation | 24 hrs, 100°C | 0.59% | ASTM D-6184 |
| Evaporation | 24 hrs, 100°C | 0.94% | 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.

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