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# Nye Lubeletter - April 2015

April 15, 2015

## Technology

### ADVT Lab: The road so far



Five years ago, a new concept was born within the technical organization at Nye. The core of this idea was to create a technical competency and functionality that would bridge a gap seen between R&D and Product Development. This new functionality would focus on developing a better understanding of the fundamentals of lubricant applications and complex electrical and mechanical systems. Customer products are typically developed and samples provided for customer testing based on physical property data and the experience of our Technical Support Engineers and Regional Engineering Managers. This places the majority of the testing burden in the customer's hands as well as the costs. This is where the new ADVT group (Applications Development and Validation Testing) fits in.

[Read More >](#)

[\(/adv\\_t\\_lab\)](#)

## Industry Focus

### Checking grease quality in Corrugating, Pressure and Preheater Roll Bearings

Grease Color	Contamination	Recommendation	Grease Consistency
White	None	Grease is good condition.	SOFT ↓ ↑ STIFF
Grey	0.0 - 0.1% iron	Grease is in good condition. Normal wear in bearing.	
Tan	0.1 - 0.4% iron	Add grease until cavity is full. Bearing OK.	
Brown	0.4 - 0.8% iron	Flush bearing with grease. Check bearing play for excess wear.	
Dark Brown	0.8% and higher	Check bearing for play and noise. If OK flush with grease. If bearing is NOT OK, schedule bearing change.	
Black		Replace bearing.	

[\(/stuff/contentmgr/files/0/9d755ed6390ef56ed5702e9dd51813df/en/nyecorr\\_colorchart\\_2014.pdf\)](#)

Within the corrugating industry, the single-facer machine is considered the “heart” of the corrugating production line. If a corrugating or pressure roll bearing fails unexpectedly during production, downtime is inevitable as changing out the bearing means changing out the affected roll. And very often, the roll change is a multi-hour, if not multi-day, job.

Because unexpected downtime due to a bearing failure is so costly and disruptive, knowing the condition of the unseen grease inside the bearing is critical.

[Read More >](#)

[\(/checking-grease-quality\)](#)

## Manufacturing Clean Room

### Nye clean rooms update

Currently, Nye Lubricants has qualified two clean rooms.

The Technical Products team is now working in a certified Class 100,000 Clean Room. This team produces ultra filtered grease and oil products for a variety of industries, specializing in filtered greases used in precision bearings. In order to certify a Class 100,000 clean room to ISO Class 7 standards, fourteen locations were mapped out on a grid of the room and monitored in the room during working hours and at rest. The air was passed through a filter at an average flowrate of 1 cubic ft/min and particles were collected and sized. Our Technical Products production area had less the 20,000 particles > 0.5 micron per cubic foot of air, meeting the Class 100,000 specification of less than 100,000 particles > 0.5 micron per cubic foot of air.

[Read More > \(/cleanroom\\_manufacturing\)](#)

### Featured News

#### Perfect Quality Award from Nexteer

March 8, 2015

Earlier this year, Nye Lubricants was honored to receive a Perfect Quality 2014 award for setting the standard of exceptional quality performance among Nexteer's supplier community.

[Read More](#)

#### **A Proud Member of MassMEDIC**

March 18, 2015

Nye Lubricants is now a member of MassMEDIC, the Massachusetts Medical Device Industry Council, an organization that represents and advocates for New England's MedTech community.

### Trade Show

#### **ASTM Conference**

Sponsored by ASTM Committee F34 on Rolling Element Bearings, the conference will be held from April 29-30, 2015 at the Marriott in Anaheim, CA, in conjunction with the April standards development meetings of the Committee.

The goal of this conference is to provide an international forum for the exchange of

information on recent achievements in bearing technology. The conference will begin with a series of technical presentations by leading experts in their field followed by a roundtable session discussing the subject of testing methods and specifications (F34 Committee).

As a leader in bearing lubrication, Nye will have a booth during the exhibition and our experts will be available to discuss the latest developments in tribological solutions for bearings.

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Ph: +1.508.996.6721 Fx: +1.508.997.5285

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