NTN's Green Line with Solid Lube Quadruples Uptime on Poultry Waste Conveyor Screws

One of the United States' largest poultry producers was suffering recurring bearing failures on a pair of its waste conveyor screws. One of the conveyor screws was responsible for transporting chicken organs while the other carried feathers. Failures on these conveyor screws were occurring every 1.5 months, leading to monthly costs of *over $12,400 in downtime and maintenance*.

NTN's engineering and sales support team performed a thorough evaluation of the conveyor screws and determined the failures were being caused by both grease washout from the wet environment and contamination from the waste being transported.

The NTN Solution

NTN's team recommended that the incumbent bearings be replaced with our Green Line four-bolt mounted units with solid lubricant. Green Line, NTN's tried-and-true line of mounted bearing units, features cast iron bearing housings designed to provide maximum strength in even the toughest applications. It also allows for +/- 2° of misalignment, giving you reliable performance. Green Line's unmatched selection of housing styles, insert types, set screws, eccentric locking collars, and adapter sleeves ensure you get the bearing you need for your application.

Additionally, NTN's solid lubrication provides excellent resistance to washout, making it an ideal solution for wet applications found in the food & beverage industry.

The Result

The NTN solution lasted *six months*; a 400% increase in uptime! The increased uptime, reduced maintenance, and decrease in bearing spend resulted in over *$125,000* in annualized savings for the poultry processing giant.

FB FOOD & BEVERAGE



VALUE ADDED BREAKDOWN

UPTIME IMPROVEMENT

$110,448

MAINTENANCE REDUCTION

$10,920

REDUCED ACQUISITION COST

$4,034

DOCUMENTED COST SAVINGS

$125,402

CS-0996 & CS-0997



ANNUALIZED COST SAVINGS
$125,402

THE NTN ADVANTAGE:
SOLID LUBRICATION

Solid lubrication is a maintenance-free solution that eliminates greasing requirements and significantly improves life in harsh wash-down applications.

- **NSF H1** compliant
- **21X** the grease washout resistance
- **Zero** grease leakage
- **Zero** re-lubrication

NSF
Nonfood Compounds
(Category Code H1)



GREEN LINE FEATURES & BENEFITS

- Optimized lubrication hole design to ensure proper relubrication is achieved, even under the misalignment capability of +/2°
- Fully assembled units arrive factory sealed and pre-lubricated for easy installation
- Premium protection from contaminants due to unique flinger design and elastomeric seal
- Heavy-duty, solid-cast housings & robust steel cages for optimal load & shock stability
- Ball-point set screw offers 7.5x longer retention life over cup-point set screws



Beyond Bearings

Training. Installation Support. Trouble-shooting. And more.

When you choose NTN, your team is equipped with all the necessary tools and resources to get the job done right. From installation to problem-solving, we'll be there with the hands-on support you need to take on your toughest challenges. This includes extra services such as:

Technical Training Unit
On-site, mobile training unit offering specialized, hands-on instruction from NTN engineers

Product Training School
Three days of in-depth instruction from NTN engineers at headquarters **(go.ntnamericas.com/trainingschool)**

eKnowledge
WEB-BASED TRAINING PROGRAM
Six online product training modules covering different bearing types and nomenclature **(www.ntnamericas.com/eknowledge)**

NTN Bearing Finder
Customizable search tool featuring exhaustive data sets, comprehensive part interchanges and interactive CAD drawings **(bearingfinder.ntnamericas.com)**

Prevent lost production from ruffling your feathers.

We're here to help you achieve your productivity and performance goals. For more information, contact your NTN Sales Representative or call **1.800.323.2358.** For technical questions, email **eng@ntnamerica.com.**

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