



## Solving a Sticky Challenge: Lubricating Sugar Cane Machinery

**Application:** Plain Journal Bearing

**Location:** Central America

### Challenge

Our customer faced a significant challenge when searching for a lubrication solution for their plain journal bearings. They had specific requirements that posed a unique set of obstacles. Firstly, the lubricant needed to be NSF H1 registered to ensure safety in the event of incidental food contact, but no suitable product meeting this requirement was available in the market. Secondly, the lubricant had to be light colored, ensuring easy visibility, possess good pumpability, and not cause damage to bronze babbits. Lastly, it needed to withstand washout from cane juice, which presented a demanding operating environment. Meeting these diverse needs within a single lubricant solution was the primary challenge.

### Solution

To address this multifaceted challenge, our team embarked on an extensive research and development process. Leveraging our expertise in lubricant technology, we conducted rigorous testing and analysis to formulate a tailor-made solution. Collaborating closely with industry experts and engaging in extensive trial runs, we successfully developed CASSIDA FM Compound SG 720, a cutting-edge lubricant that met all the customer's requirements. This involved formulating a unique, light-colored product that met NSF H1 registration requirements, while also exhibiting excellent pumpability and compatibility with bronze babbit bearings. Additionally, our solution demonstrated exceptional resistance to washout from cane juice, exceeding expectations in this demanding application.

### Results

The customer was extremely pleased with our innovative lubrication solution. Firstly, our product achieved the coveted NSF H1 registration, providing peace of mind to our customer regarding incidental food contact. Its light color enhanced visibility and allowed for quick visual inspections, ensuring efficient maintenance. The excellent pumpability improved operational efficiency and reduced downtime. Moreover, our solution proved to be highly compatible with bronze babbit bearings, mitigating the risk of any damage to the bearing or surrounding materials. Lastly, the lubricant's outstanding resistance to washout from cane juice contributed to extended equipment life and reduced maintenance frequency. Overall, our comprehensive solution delivered superior performance, addressing the customer's diverse requirements and surpassing their expectations.

### Advantages

NSF H1 registered

Resists washout from cane juice

Good visibility & pumpability