

Exelerate™ TUFSOIL provides safer and faster application in addition to improved cleaning outcomes in industrial fryer soils when compared to a competitor's product.



BACKGROUND

A major potato processing plant in North America produces battered and shaped French fries sold to major foodservice and retail suppliers across the globe. The battered product lines and form lines have high amounts of carbohydrate, oil, and sugar soils that build up on and around the fryer area.

The plant manufactures product for 21 continuous days and has a 24-hour shutdown period to clean. The customer is currently using a competitor's high alkaline, ready-to-use gel cleaner and while they are meeting expected cleaning outcomes, they are experiencing several issues:

- Applying the competitor's gel cleaner takes 1 hour per fryer due to slow dispensing and limited surface coverage due to high viscosity
- The high viscosity of the competitor's gel cleaner clogs and damages the dispensing equipment causing downtime due to constant repairs and maintenance

- The high alkaline concentrations in the competitor's gel cleaner are known to have caused injuries and respiratory irritation to users applying it

After consulting with the Ecolab Account Manager, the plant management decided to use Exelerate TUFSOIL, a ready-to-use heavy duty gel cleaner & degreaser, to tackle their hard-to-remove oils and French fry soils. The success criteria were the following:

- Reduce the time spent applying the chemistry on the surfaces and minimize downtime due to dispensing equipment maintenance
- Reduce the overall time spent cleaning the fryer line and achieve equal or improved cleaning results when compared to the competitor's gel cleaner
- Enhance worker safety during application of chemistry and reduce respiratory hazards

CONVERSION SAVINGS



PRODUCTIVITY



HUMAN HEALTH & SAFETY

0 Operators

experiencing respiratory irritation

~1 Hour

reduction in fryer cleaning per line

10 Minutes

reduction in downtime due to dispensing equipment failure

~30%

potential reduction in volume application vs competitor's ready-to-use gel cleaner

VALUE DELIVERED

\$56,100

Potential Annual Productivity Gains

\$26,374

Estimated Annual Savings

SOLUTION

Exelerate TUFSOIL replaced the competitor's gel cleaner and it was applied using the same spray dispensing equipment.

Exelerate TUFSOIL was applied to the hot surfaces on the exterior of the fryer during boil-out and environmental areas; instead of taking 60 minutes, it only took 6 minutes due to its lower viscosity.

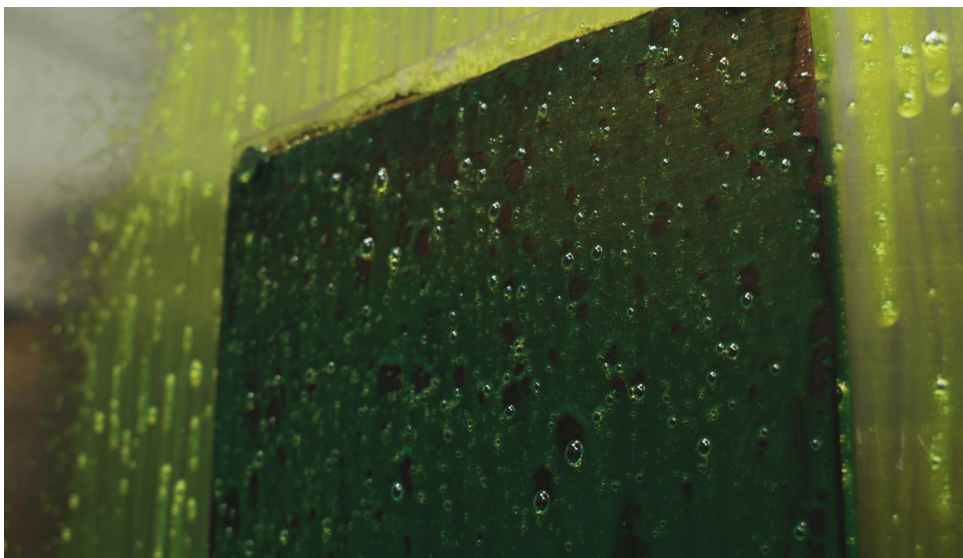
Exelerate TUFSOIL was rinsed without additional scraping or high-pressure water blasting when compared to their existing protocol.

RESULTS

Implementing Exelerate TUFSOIL allowed the customer to maintain cleaning performance while reducing the fryer cleaning time by close to 1 hour, providing the plant with the potential to start production earlier, conduct additional preventive maintenance work, or carry out cleaning and sanitation in other areas.

Exelerate TUFSOIL's fluorescent green dye was positively received by operators because it allowed them to clearly visualize where the product had been applied, avoiding overuse, and ensuring that it was properly rinsed.

Finally, users noted no odor while using Exelerate TUFSOIL, enhancing worker safety and reducing respiratory irritation when compared to the competitor's product.



By efficiently removing carbohydrate, oil, and sugar soils, Exelerate TUFSOIL helps reduce soil build-up and helps reduce risks of fryer fires after a clean-up.

CONCLUSION

By switching to Exelerate TUFSOIL and implementing it as part of their fryer cleaning program, the plant was able to achieve its goals of reducing the overall time spent cleaning the fryers, enhancing worker safety, and achieving satisfactory cleaning outcomes.