

CASE STUDY

LARGE-SCALE MOBILE ELECTROPOLISHING



THE CHALLENGE

During a routine inspection of the inside of a customer's vessel, ABEC service technicians discovered the passive layer of the vessel surface showed signs of decline.

The interior passive layer of vessels diminishes over time, leaving the surface susceptible to corrosion, rouge, and pitting. Annual inspections inside vessels typically reveals this type of deterioration.

THE SCOPE

ABEC performed a mechanical polish inside the vessel to clean up the corrosion and rouge. Following the mechanical polish, ABEC performed a full vessel electropolish to reinstate the passive layer of the vessel.

Interior Electropolishing provides a protective layer to the vessel surface. The mechanical polish and full vessel electropolish were completed onsite within two days.

THE RESULTS

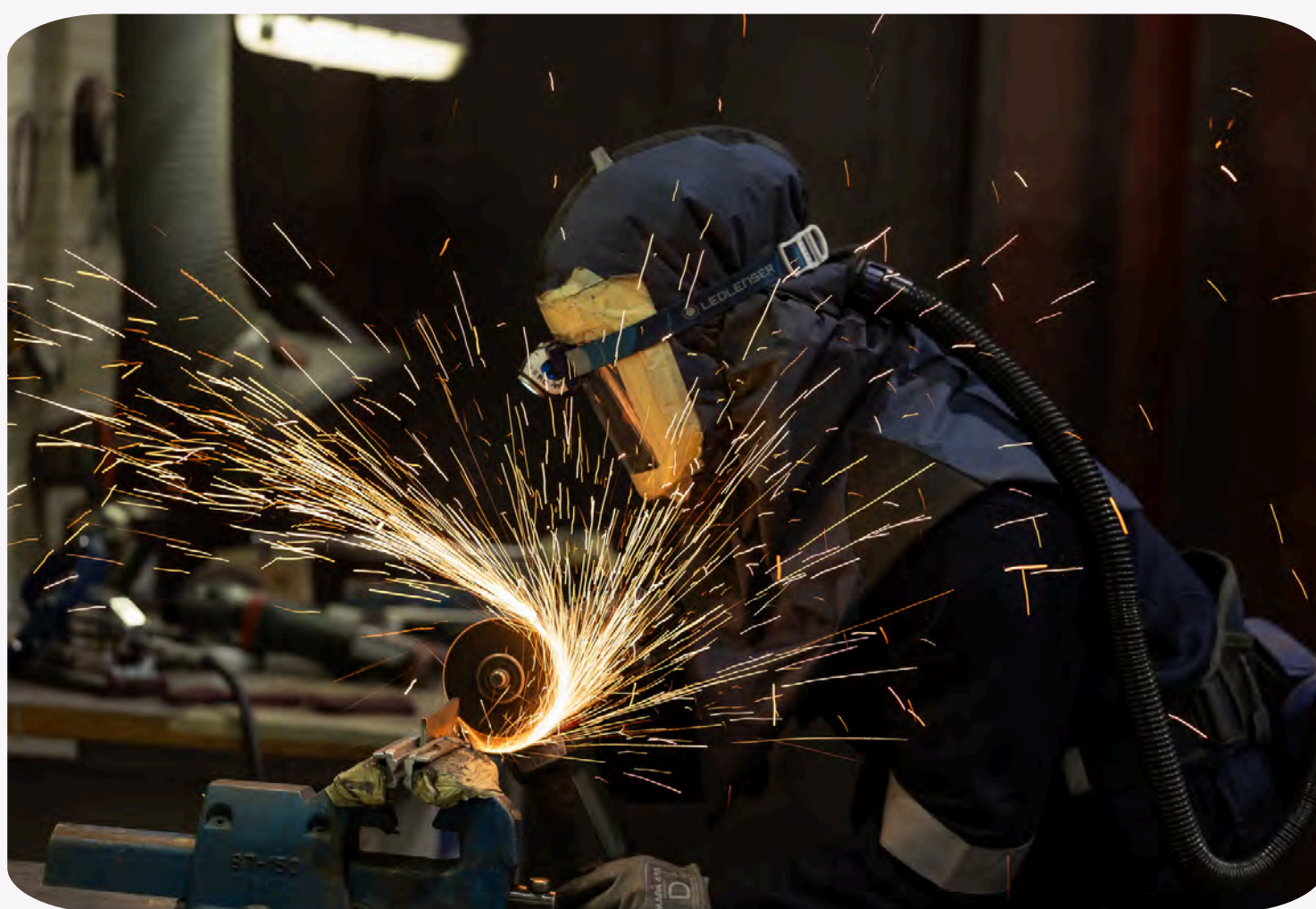
ABEC's full electropolishing service completely restored the passive layer on the interior of the vessel, providing better protection against corrosion, rouging, and pitting, which reduced the risk of contamination.

ABEC delivered an industry turnover package for the traceability of all the ABEC repairs to the inside of the vessel. The quick turnaround of the package provided the customer with technician certifications, mechanical polish certifications, and electropolish certifications



THE BENEFITS

- ABEC utilized an electropolishing procedure that exceeds the standards outlined in ASME-BPE Nonmandatory Appendix H
- ABEC's electropolishing service improves Ra reading on the surface finish, which along with creating a better finish, removes any possible ledges for contamination to accumulate
- ABEC's service technicians travel to your facility, are trained and certified for confined space entry (CSE), and follow strict site and ABEC safety protocols
- ABEC's vessel electropolishing service increases longevity, improves sterility, and reduces risk



Maximizing Customer Productivity, Controlling Costs, and Reducing Risk

ABEC's service team is highly trained and experienced, working for customers to maximize productivity, control operating costs and mitigate risk. In every way, we strive to eliminate unscheduled shutdowns, while bearing in mind all factors associated with maintaining and improving bioprocess production operations and equipment. Our expertise and capability to address your specific requirements, in line with your schedule, make us the first choice for bioprocess services, no matter the location, the scale of the task, or the original manufacturer.



ABEC SERVICES THE ENTIRE BIOPROCESS

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