

FEATURED SERVICES:

LOLER TESTING



DESIGN



FABRICATION



INSTALLATION



MOBILE SERVICES



WELDING



1. PROJECT OVERVIEW

NPS was engaged to carry out critical modifications on a D61 Dozer that operated on a busy industrial site. The machine was essential to ongoing production, primarily used for handling shredded scrap metal and being lifted into the holds of ships via crane. As the Dozer could not be removed from the site, all works needed to be completed in situ without interrupting operations.

2. CHALLENGES

- The Dozer was essential for daily operations and could not be removed from site.
- It was regularly subjected to harsh working conditions, including handling scrap metal and being lifted into ship holds.
- Standard equipment protections were inadequate given the intensity of the tasks.
- Any downtime would disrupt production, so time-sensitive, onsite work was required.
- Strict safety and compliance standards had to be met, including LOLER testing and independent weld inspections

3. SOLUTIONS

NPS provided a complete on-site solution tailored to the client's needs:

- Custom Fabrication: Designed and fabricated bespoke cab window guards and ram guards to protect both the operator and machine components.
- Lifting Points: Installed OEM lifting points directly onto the Dozer. All welds were independently inspected and verified for safety.
- Protective Measures: Designed and fitted custom guards to protect the lifting points from impact damage during operation.

- Pre-Planning & Safety Compliance: Conducted a comprehensive site survey and developed Risk Assessments and Method Statements for all on-site activities.
- Efficient Scheduling: Deployed a two-man fabrication team to carry out the work early on a Saturday morning, minimizing operational disruption, as the site operated Monday to Friday.
- Third-Party Testing: Coordinated with an external partner for on-site weld and LOLER testing to meet all safety requirements.

4. RESULTS

- All fabrication and installation work was successfully completed on time and within budget.
- Welds and lifting points passed all required tests with no issues.
- The Dozer remained fully operational throughout the week with no production downtime.
- The client expressed high satisfaction with the outcome, particularly praising NPS for completing all work on-site — a solution no other supplier was able to offer.

6. CONCLUSION

This project demonstrated NPS's ability to deliver complex, safety-critical engineering solutions entirely on-site. Through custom design, efficient planning, and expert execution, NPS avoided downtime for the client and ensured full compliance with safety standards. Their innovative approach set them apart from other suppliers who required the machine to be removed from site — making NPS the ideal partner for challenging, high-stakes projects.

