

**Proven savings
with LiftTech**

Scrap grapple repair and failure analysis

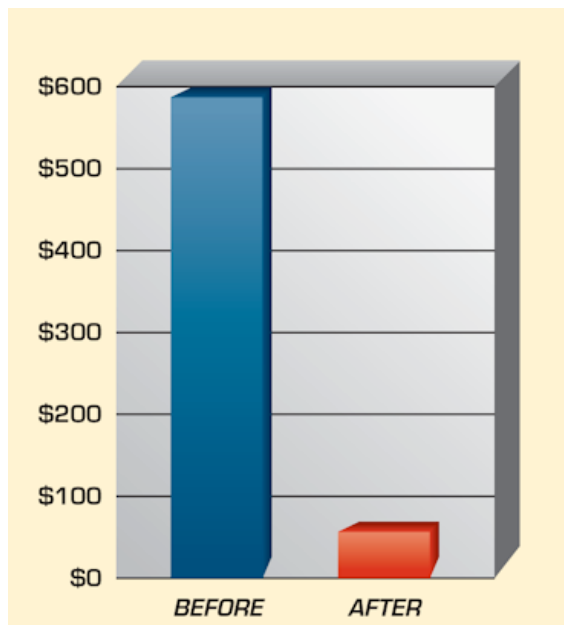
Before this major scrap recycler instituted our LiftSafe® Maintenance Management Program, service life for grapples was less than one month. Completing the required repairs took the grapples out of service for an average period of three months, at an average cost of \$45,000 each.

Under the new LiftSafe plan, and due to recommendations by LiftTech personnel, improved repair procedures extended the mean time between repairs (MTBR) by 300%. Repairs were still required every 3 months so an engineering study was later commissioned to identify the root cause of their frequent failures. The study led to upgrading and modifying the grapples for their specific application. Via an engineered recommendation, the upgrades extended the service life by a factor of 10 times and allowed repaired units to return to inventory in half the previous time.

As a result of this proactive LiftSafe program, the recycler's annual cost for grapple repairs are down almost 90% and the maintenance program saved the recycler about \$6.3 million in 3 years.



Average Annual Cost



	Service Life	Turnaround	Annual Cost
Before	3 - 5 weeks	8 - 12 weeks	\$585,000
After	28 - 32 weeks	6 - 8 weeks	\$60,667
Total savings			
4 grapples over 3 years			\$6,291,996