CASE STUDY



PROJECT DESCRIPTION: Rust removal and corrosion prevention on lifting chains at the Triferto fertilizer plant in Veendam

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Period	Start May 2012 - present
Situation:	Fertilizer causes extreme corrosion and creates premature wear on lifting
	chains. This causes sticking and rejection of the chains used on trucks at
	Triferto
Task:	Apply corrosion protection to keep the chains usable. Rust also needs to be
	removed from corroded parts without too much work. BLP uses Archoil
	AR5100 Corrosion Remover and Archoil AR9100AE Nanoborate Workshop
	Spray (Corrosion inhibitor and friction modifier).
Action:	AR5100 is a nano rust remover. By immersing the chain in a bath with
	AR5100 with a ratio of 0.5 L AR5100 to 5L water, the rust is safely and
	promptly removed from the chain. Prior to treatment, links in the lifting chain
	were seized. Subsequent treatment with AR9100AE Nanoborate offered
	excellent lubrication and actively prevents further rust from forming. AR9100
	binds with the metal surface at a molecular level and is therefore resistant to
	extreme conditions. This type of bonding also makes it superior to other
	lubricants or coatings. The service life of the chain can be extended by a
	factor of two to three.
Result:	Cost of a lifting chain is approximately €280 per meter. A 2 x 3 meter chain
	will cost a total of €1,680.
	The treatment for 6 meters of chain: 0.5L AR5100, € 35.00 and 1 spray can, 5L
	AR9100AE, € 12,90 = € 47,90.
	With € 47.90 in Archoil products and € 400 in workshop costs, it is possible to
	save € 1.680 per truck per year. Jungheinrich Netherlands has included
	Archoil AR9100AE in the standard product range for field technicians.





