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Amarinth refurbishes titanium pumps for ADNOC

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Amarinth has refurbished sodium hypochlorite dosing pumps for ADNOC on schedule using its facility in the United Arab Emirates to meet strict shutdown deadlines.

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Engineers test a newly refurbished sodium hypochlorite dosing pump for ADNOC at Amarith's facility in UAE - Image courtesy of Amarith.

The UK company supplied the original pumps to ADNOC in 2016 for sodium hypochlorite dosing duties on the Umm Lulu offshore platform located in the Arabian Gulf, 30km north-west of Abu Dhabi, UAE. Because sodium hypochlorite is highly corrosive, [Amarinth](#) originally used titanium alloy for all wetted parts.

During a routine capital assessment, ADNOC decided the pumps were due for refurbishment. The sodium hypochlorite dosing pumps are critical to production and refurbishment had to align precisely with a specific shutdown schedule.

The shutdown schedule would not allow the pumps to be returned to the UK for a full strip, assessment and refurbishment, so Amarith used its UAE facility to undertake the work.

Amarinth's UAE facility was able to complete the strip and assessment report within five working days and propose two refurbishment projects. The first involved a full rebuild, test and warranty of the first pump replacing all the titanium components including impeller, shaft, bearing brackets and mechanical seals. The work needed to be completed in just eight weeks. Amarith prioritised the ordering of the titanium components and was able to have the parts manufactured and shipped to the UAE to align with the rebuild schedule. The second project undertook the same work on the other two backup pumps to be completed on a 24-week schedule.

Oliver Brigginsshaw, managing director of Amarith, said: "Having supplied the original pumps to ADNOC we have a wealth of experience in working with titanium components. We are also pleased with the growth of our local UAE facility for service and support and which enabled us to successfully expediate this particular refurbishment, benefiting both ADNOC and the local economy."



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