



## CASE STUDY

## CUSTOMER

ENI DRILLING COMPANY

## LOCATION

ADRIATIC SEA, ITALY / 2015

## EQUIPMENT

OFFSHORE GAS PLATFORM

## APPLICATION

GLYCOL DEHYDRATION

## PROVEN RESULTS



GLYCOL PUMP PROTECTED

IMPROVED DEHYDRATION EFFICIENCY

## CHALLENGE

Contamination entering a 3000-7000 L glycol reservoir from a 32 km pipeline had high levels of contamination as a result of pipeline corrosion. The contamination would degrade new glycol, and reduce its ability to cool and remove moisture from gas. Corrosion of the carbon steel piping would cause contamination build-up during transmission and storage.

The glycol system was unmanned and required a low maintenance filtration solution with minimal change-outs. During the dehydration phase, if the temperature of the glycol is volatile (this occurs when high levels of iron are present), the likelihood of vaporization loss is increased, resulting in lost production.

## SOLUTION

Install an OEI magnetic filter scrubber after the reservoir to improve glycol quality.

## RESULTS

Analysis of contamination collected on the magnetic element showed 74% non-ferrous particles and 26% ferrous.

The glycol quality was significantly improved with minimal maintenance requirements.

SPECTROSCOPIC ANALYSIS	
Iron	606 ppm
Chrome	17 ppm
Nickle	< 5 ppm
Manganese	12 ppm
Aluminum	93 ppm
Lead	< 5 ppm
Copper	24 ppm
Tin	< 5 ppm
Silver	< 5 ppm
Titanium	5 ppm
Silica	410 ppm
Sodium	26 ppm
Potassium	130 ppm
Vanadium	< 5 ppm
Calcium	14 ppm
Magnesium	64 ppm
Phosphorous	779 ppm
Zinc	30 ppm
Barium	86 ppm



RECOMMENDED PRODUCT

**MAGNETIC FILTER SCRUBBER**

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