

Predator* Protects Against High Acid Crude Corrosion & Eliminates Fouling at North American Refinery

Challenge

The refinery was processing a high acid crude and heavy vacuum gas oil. The corrosion in the high temperature areas of the crude and vacuum units was being controlled by feeding a competitor's phosphorous ester chemistry. Unfortunately, the treatment program caused fouling in the atmospheric distillation tower. The refiner asked GE Infrastructure Water & Process Technologies to replace the competitor's program with a program that would control the corrosion and eliminate the fouling.

Solution

GE recommended using the Predator 61N treatment program. Predator 61N is phosphorous-based, GE-patented product specifically created to provide effective corrosion control and a significantly reduce fouling potential.

Results

After a planned shutdown to clean the fouled atmospheric tower, and a brief period of no treatment, the Predator 61N treatment program was implemented. As Figure 1 shows, corrosion rates were controlled to the desired KPI after implementing the Predator treatment program. Furthermore, fouling in the atmospheric tower was eliminated.

Due to the success of the program, the refiner continued to process the high acid crude, and realized an incremental savings in excess of \$2.50/Bbl of high acid crude charged.

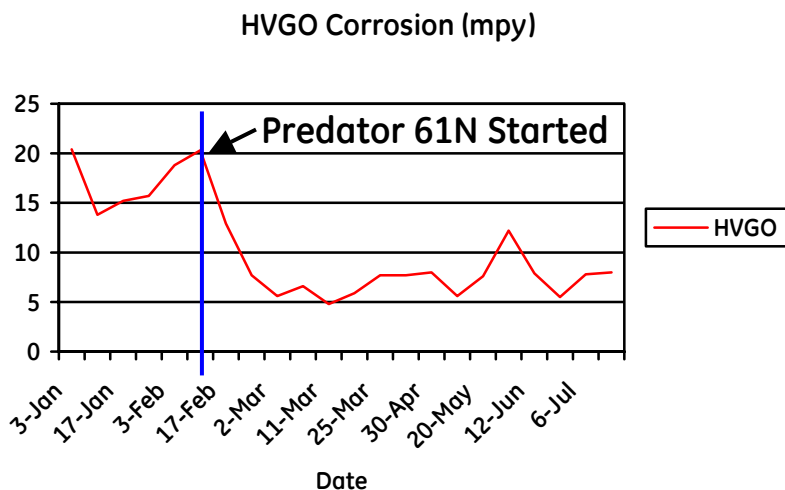


Figure 1: Corrosion rate before and after Predator 61N



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