CUSTOMER SPOTLIGHT

How major U.S. fuel marketer combats commingling and decreases failure rates.



THE SITUATION

In the early 2000s, our customer, a major Fortune 20 fuel marketer, acquired the retail operations of another large fuel marketer. This purchase increased our customer's retail operations footprint substantially.

The acquisition added new complexities to their supply chain, including:

- Adding over 10,000 stations to the retail network
- Consolidating two branded additives to one third-party additive package
- Using more than 100 unmonitored, third-party fuel terminals
- Continued divestiture of company-owned stations to franchise ownership



THE CHALLENGE

Consequently, the company became concerned about the integrity of their combined gasoline supply chain, the possibility of commingling, and of fuel terminals running out of gasoline.

The fuel marketer required that any fuel marker selected to combat commingling meet all U.S. E.P.A. standards, as well as more rigorous California E.P.A. Air Resource Board (CARB)

standards. This required a marker chemistry that would not harm the environment or cause adverse health effects through combustion and evaporative emissions.

Able to meet all requirements, Authentix has been the fuel authentication solutions partner since 2002 for this company, which today involves nearly 15,000 branded sites in the United States.



RESULTS

- √ 7% average decrease in failure rate since program inception
- ✓>1500% ROI from program cost to revenue recovered
- ✓ Increased consumer brand confidence and competitive advantage



Fuel Authentication Solution

CUSTOMER SPOTLIGHT



THE SOLUTION

The Authentix fuel authentication solution developed for this large fuel marketer is an advanced solution that includes a fuel marking system consisting of physical markers added to fuel; information systems including proprietary software, data collection, and reporting; and services including:

- Lab testing and sample analysis
- Program management and sampling oversight
- Results analysis and reporting
- Sample collection in the field

The Authentix solution uses a mass differentiated molecular marker with gas chromatography-mass spectrometry (GC-MS) analyzers, considered to be the gold standard for forensic analysis. At the additive facility, the marker

is added to the customer's additive package. It is then shipped to over 100 terminal facilities across the country, where it is injected into the base fuel according to prescribed treat rates.

Samples from approximately 400 retail stations are delivered to the Authentix Analytical Laboratory for analysis. Using three Agilent GC-MS analyzers, a sample analysis is conducted for the customer's fuel and additive. Results are then uploaded to the Authentix Information System, AXIS®, which collects, correlates and analyzes, and presents the data, enabling our customers to take action. In November 2019, this customer began utilizing AXIS directly, further improving operational efficiency and enabling faster reporting and enabling near real time results once samples are received in the Authentix lab.



THE RESULTS

Since developing and implementing the fuel authentication program in 2002, Authentix has marked more than 200 billion gallons of gasoline to all 50 states with outstanding results:

- Seven percent decrease in failure rate directly attributed to a reduction in the commingling of nonbranded gasoline with branded product
- Greater integrity within the complex fuel supply chain
- Increase in consumer brand confidence and competitive advantage across the U.S.

ABOUT

As the authority in authentication solutions, Authentix helps customers thrive in supply and distribution chain complexity. We provide advanced authentication solutions for governments, central banks and commercial companies, ensuring local economies grow, banknote security remains intact and commercial products have robust market opportunities.

Find out how we can put solutions like these to work for you.

Contact us at info@authentix.com.

