

How a GCC Fleet Operator Detected 2,100+ Liters of Fuel Losses in a Month



Fuel Monitoring and Theft Detection uncovered 6k+ AED in fuel losses across a cross-border GCC fleet



KEY FIGURES



2,187 L

Fuel loss detected



13

Loss events flagged



6,014 AED

Estimated cost impact



PROFILE

Company Overview

This fleet runs temperature-controlled trucks across a cross-border corridor connecting the UAE, Saudi Arabia, and Oman, and it buys its own fuel, so every liter lost drains the bottom line directly. Differences in fuel prices across the UAE and Oman increased the importance of maintaining accurate fuel accountability across cross-border operations.



PROBLEM

The Business Challenge

Fuel consumption on certain vehicles did not match distance traveled or expected operating costs, but there was no reliable way to determine:

- Which vehicles were consuming more fuel than normal?
- How frequently were fuel losses occurring?
- Where along each route were they taking place?
- What was the total financial impact?

BARRIER

Why Existing Fuel Records Were Insufficient

Existing fuel records showed overall consumption, but they could not connect an unexplained fuel-level change to a specific vehicle, timestamp, or location. This made it difficult to distinguish individual loss events and investigate recurring patterns across cross-border routes.



SOLUTION

95% Accurate Fuel Consumption Analysis

Intangles deployed Fuel Monitoring and Fuel Theft Detection across the fleet, rated at 95% accuracy in telling a genuine anomaly apart from normal consumption variance. The solution tracks fuel level in real time, flags drops that do not correspond to a fuel refill or normal vehicle consumption, and records the timestamp and GPS location of every flagged anomaly automatically.

ANALYSIS

One Vehicle Accounted for 1,236 Liters

The most affected vehicle alone accounted for more than half of the fuel lost to theft fleet-wide, 1,236 of the 2,187 liters, across 4 separate events of abnormal fuel drops.



4

Theft events



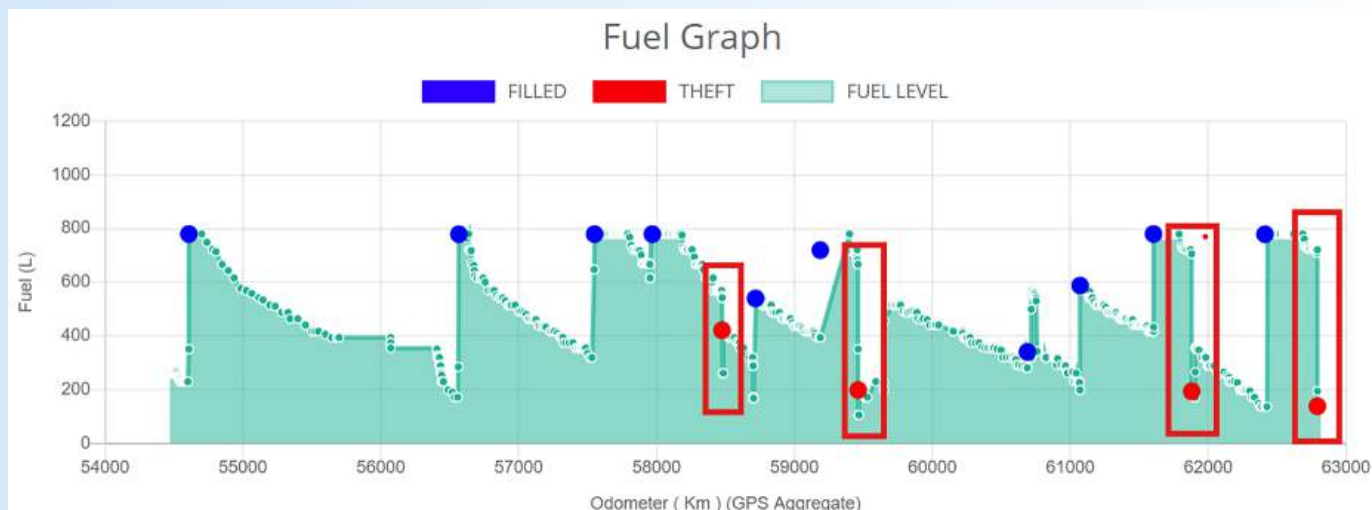
1,236 L

Fuel lost to theft



3,399 AED

Cost impact



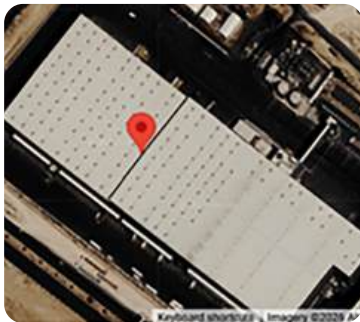
Every **red dot** is a fuel drop that does not match a refuel or normal usage. **Blue dots** indicate recorded refuelling events.

PATTERN

Three Recurring Locations Were Identified

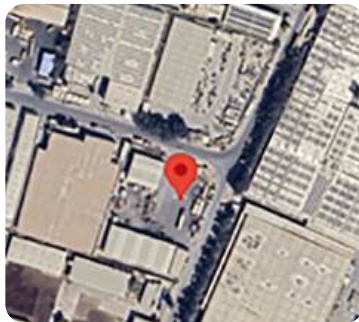
Fuel theft was not random. Events clustered around multiple locations across Dubai, turning a fleet-wide blind spot into addresses that could be watched directly.

Hotspot 1



The vehicle took out 126 liters fuel
On May 12th 2026, 1:19 pm

Hotspot 2



The vehicle took out 329 liters fuel
On May 26th 2026, 4:05 pm

Hotspot 3



The vehicle took out 569 liters fuel
On Jun 1st 2026, 3:04 am

ACTIONS FOR IMPROVEMENT

Customer Validation and Escalation

- ✓ Cross-checked flagged events against fuel station receipts and logs to analyze mismatches
- ✓ Escalated confirmed theft cases through internal and legal channels
- ✓ Increased monitoring at the three identified locations to prevent future losses

OUTCOME

Business Impact

- ✓ Every loss identified is now traceable to a specific vehicle, event, and location
- ✓ Real-time, continuous monitoring replaced a blind, once-a-month review, closing the exact gap that let losses go unnoticed
- ✓ One consistent standard of fuel accountability now runs across three countries and two fuel-pricing zones

See what your own fleet's fuel data might be hiding.

Talk to Intangles about deploying Fuel Monitoring and Fuel Theft Detection, and start turning unexplained fuel costs into vehicle-level, actionable evidence.

