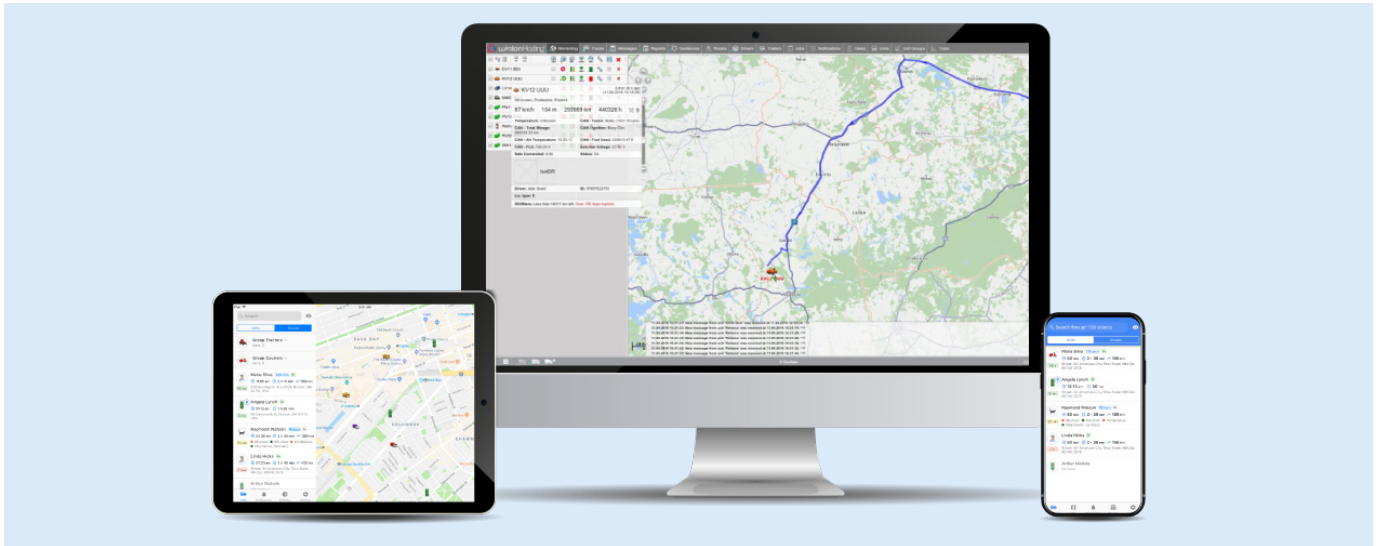# wialon

Ultimate platform for GPS tracking and IoT

System Overview

GURTAM
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Wialon: the ultimate solution for intelligent GPS tracking and fleet management

Companies in 130+ countries choose Wialon to track 2,900,000 assets worldwide. You can instantly start using the system with almost any type of AVL hardware, personal, asset, satellite trackers, and various MDVRs. The universal platform goes beyond simple monitoring and allows you to launch tracking in remote areas with satellite communication option and benefit from sophisticated video monitoring solutions.

Wialon promotes advanced security, ensures precise location detection and total visibility into the performance of your assets through real-time monitoring, powerful analytics, alert and notification system allowing for early response to any emergencies.

Wialon: the ultimate solution for intelligent GPS tracking and fleet management

Scope of application:

- Fleet performance analysis
- Mobile workforce management
- Driver behavior monitoring
- Fuel consumption control
- Video surveillance
- Real-time monitoring
- Maintenance management
- Hazardous/FMCG goods transportation control
- COVID quarantine monitoring

System functionality:

- GPS/LBS location detection
- Alert and notification system
- In/out geofence control
- Fuel consumption/fillings/thefts reports
- Video telematics solution
- CAN bus data reading
- Route optimization/management
- Flexible report-building tools
- Data capture from sensors, counters, RFID readers, etc.

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Wialon Dashboard: a perfect tool for data analysis and visualization
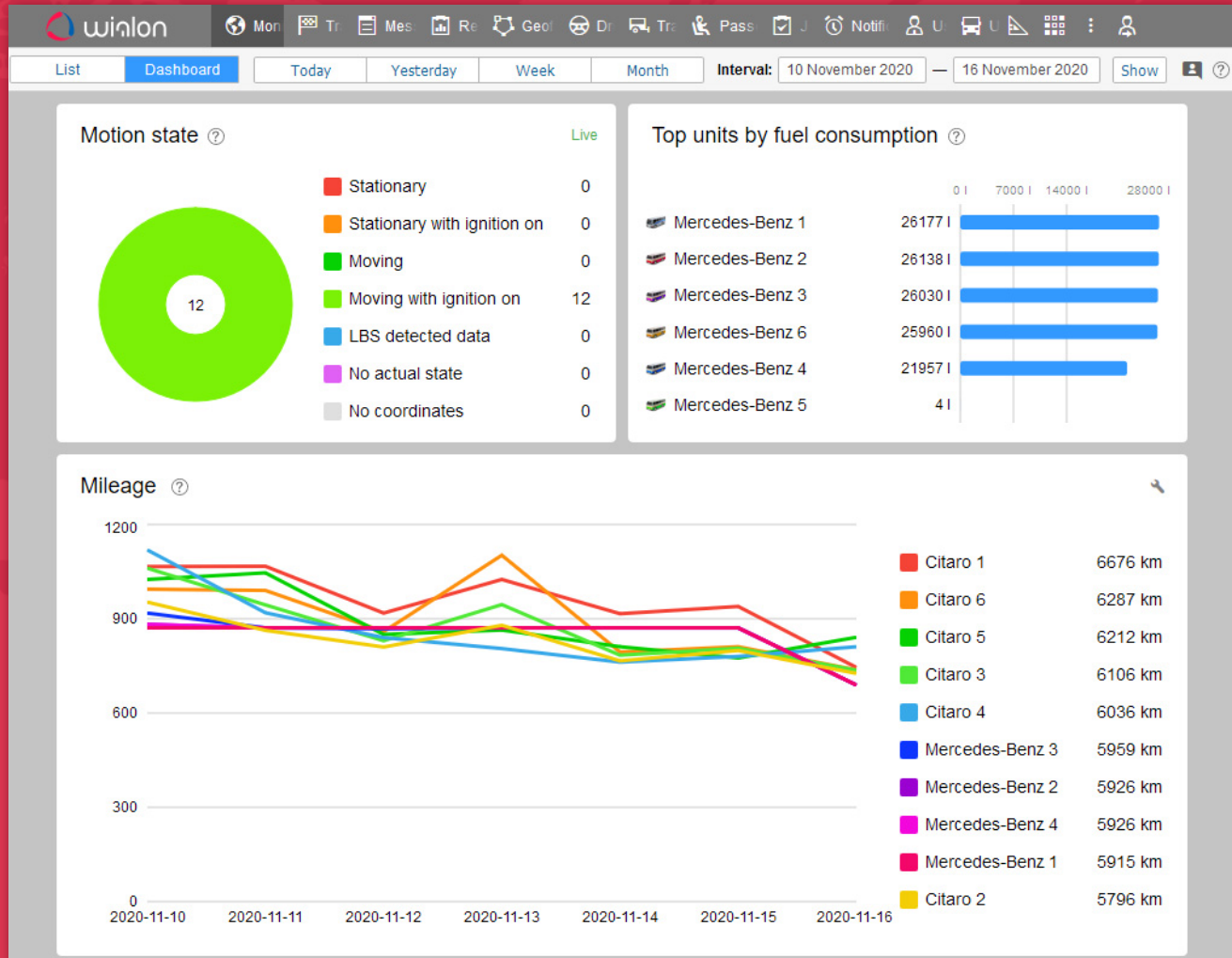
Wialon Dashboard: a perfect tool for data analysis and visualization

Fleet performance evaluation is based on mileage, fuel consumption, engine hours, and other indicators.

Wialon offers the Dashboard – a universal tool for quick, easy data at hand for day-to-day fleet control and analysis.

Browse through vivid blocks displaying the data on:

- Connection state
- Motion state
- Top units by fuel consumption
- Top units by mileage
- Geofences

- Mileage
- Notifications
- Fuel consumed by FLS
- Speedings

Configure and fune-tune the blocks to display only the data you need right now, choosing the units, types of blocks, and time periods you'd like to analyse the info for.

No matter how diverse and complicated the data is, Dashboard makes it simple and perceptible both for novice users and top managers.

Video telematics:
real-time and event-based video monitoring

Wialon brings together satellite monitoring and video surveillance in one platform

Feature-rich Wialon system, combined with MDVRs functionality, allows you to watch the assets and the events on the way with your own eyes.

Accurate unbiased video records enable precise incident analysis which in the end leads to reduced accident rates, increased fuel economy, improved road safety, and enhanced smart insurance practices.

Features:

* Video playback and livestream
* View accident videos right from the reports
* Easy setup and configuration
* Automatic and manual saving of video clips
* A video player
* A complete toolset for work with video broadcasting and video files
* Convenient to search through the clips catalog with tags

Wialon and CMSv6 integration

* Time-saving service
* Live stream
* Video playback
* Video downloading
* Picture snapshots

Advanced reports: powerful analytics in Wialon
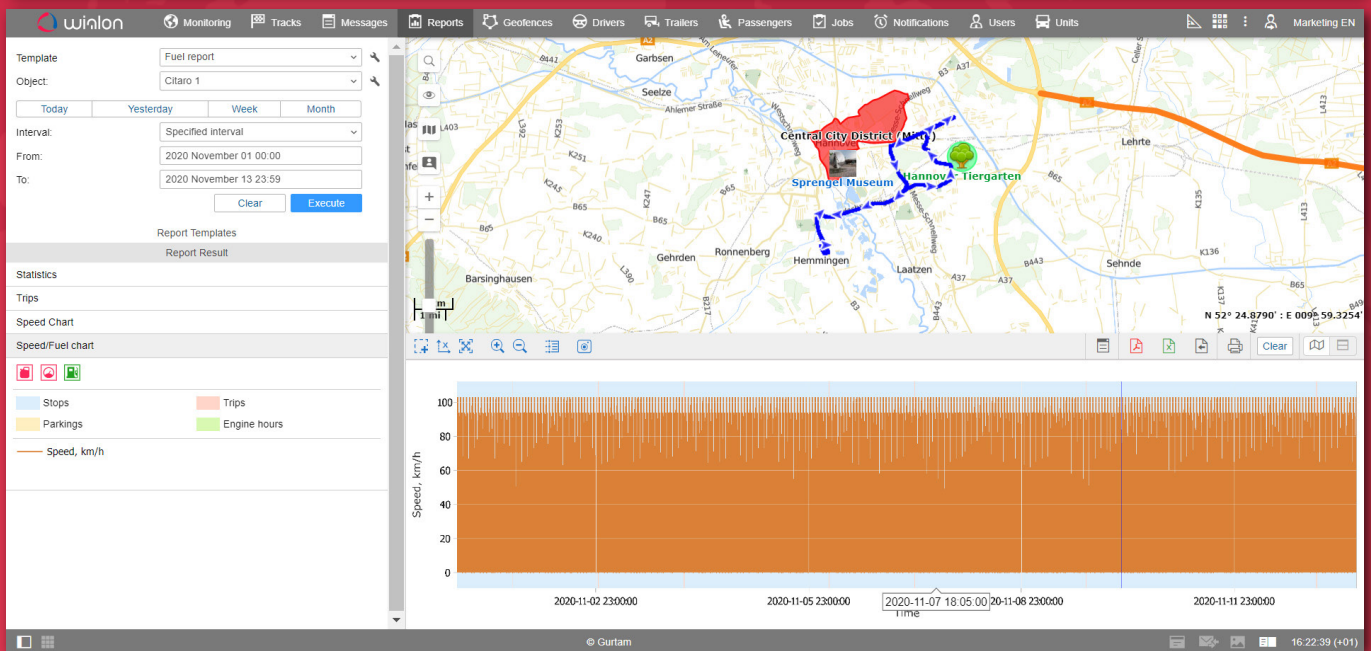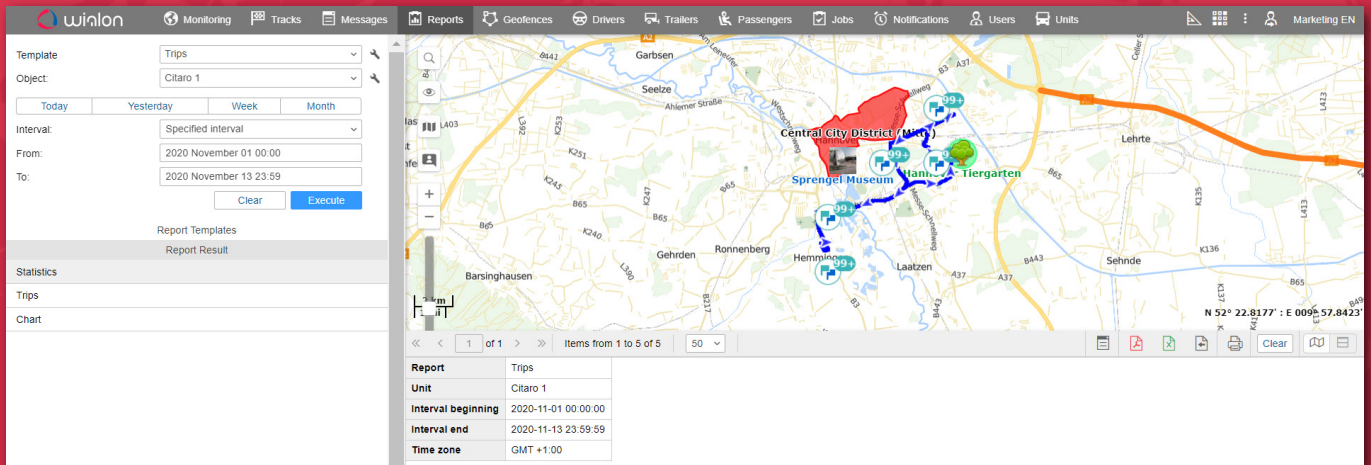
Reports are used to analyze and present information on unit activity in handy tables and charts. The system allows creating flexible report templates, viewing reports in a browser, exporting them to files in various formats, and sending by e-mail.

◆ Report queries
Study reports online, get scheduled and event-based reports or execute them in one click from the monitoring panel

◆ Handy data management
Use multi-level grouping, sorting, detalization mode, interval filtration, and time limitations for data display

◆ Informative charts
Study charts with auto-scaling, zoom, single/multiple axes view, message points tracing; add backgrounds, event markers, and different line colors
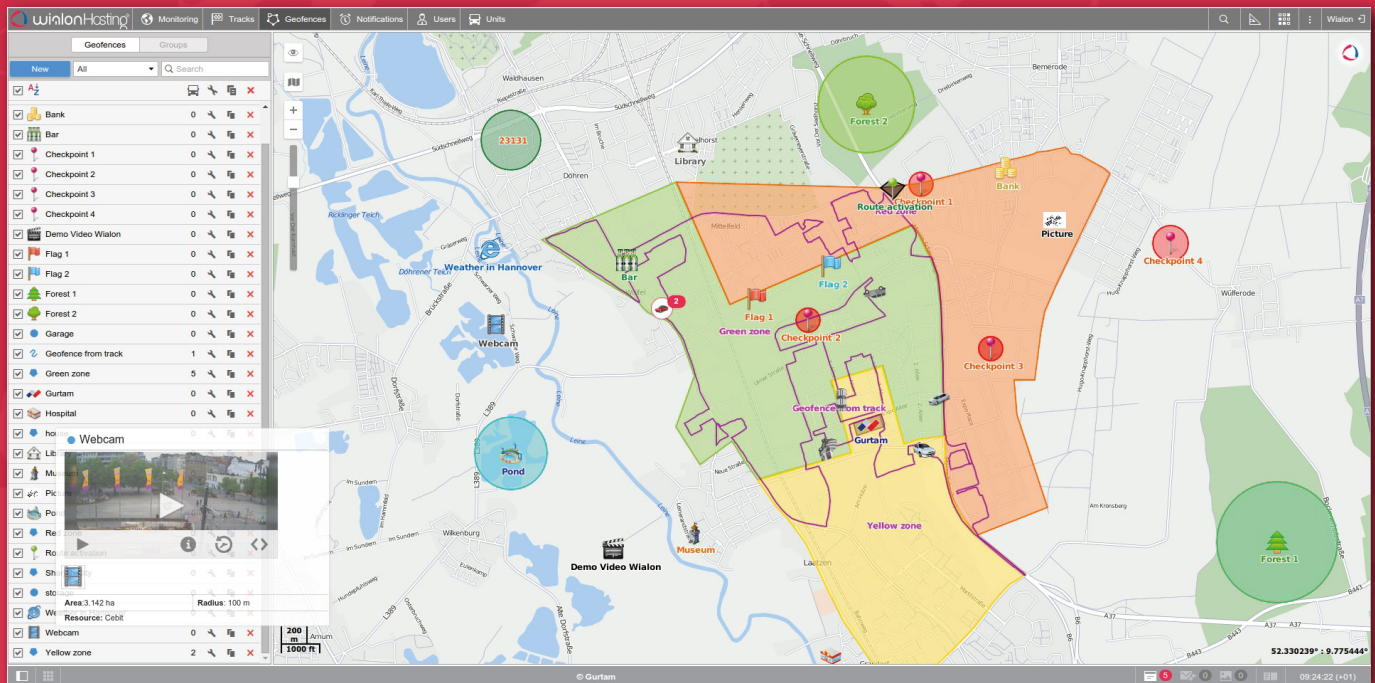
◆ Mapping options
Take advantage of a scalable map featuring event markers, geofences, units, and tracks with the option to attach it to a report

◆ Extended information
Complement reports with precise addresses, statistics, and data on 300+ monitoring parameters

Geofences and notifications: control every aspect of unit performance in/outside the specified area

1. Geofences

Create any number of geofences of various shapes, colors, and sizes to restrict unit movements, prevent vehicle thefts, and control its activities within a specified area.

- **Control** unit performance inside or outside geofences, including speed limit violations, sensor value variations, and access to vehicles
- **Use** geofences as addresses in reports and tooltips whenever precise address information is missing or control route performance by using geofences as checkpoints
- **Benefit** from dynamically updated images, screenshots, and other information bound to geofences
- **Be notified** on any events taking place within geofences

2. Notifications

Receive email, SMS or pop-up notifications if a certain event occurs (e.g. violations, alarm button activation, sensor value variations, connection loss, idling, etc.).

- Use the information from notifications to trigger certain processes in the system, for instance, sending messages to a driver, executing a command, emailing reports
- Inform users about the unit activity via adjusting online notifications
- Notify users by email, sms, Telegram
- Enable web push notifications to view a notification from any tab of browser, or when the browser is minimized

Tracks and minimaps: extended information on units and routes
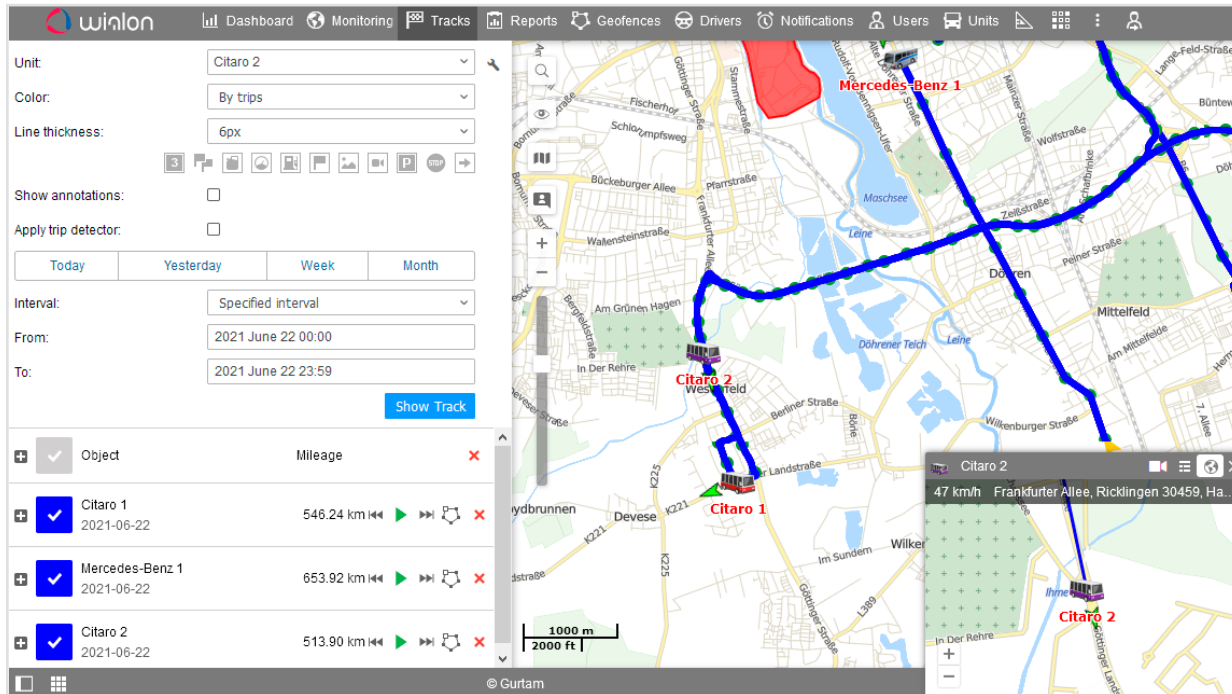
Tracks: create tracks to display unit movements on the map and get quick access to unit activity data via event markers. Track Player app makes it easier to simultaneously follow several units on the map, analyze tracks and timeline events in a handy interface.

Minimaps: use minimaps to instantly access extended unit information, current location, speed, and address or follow units with Google Street View.

Fuel consumption control: fillings and thefts detection
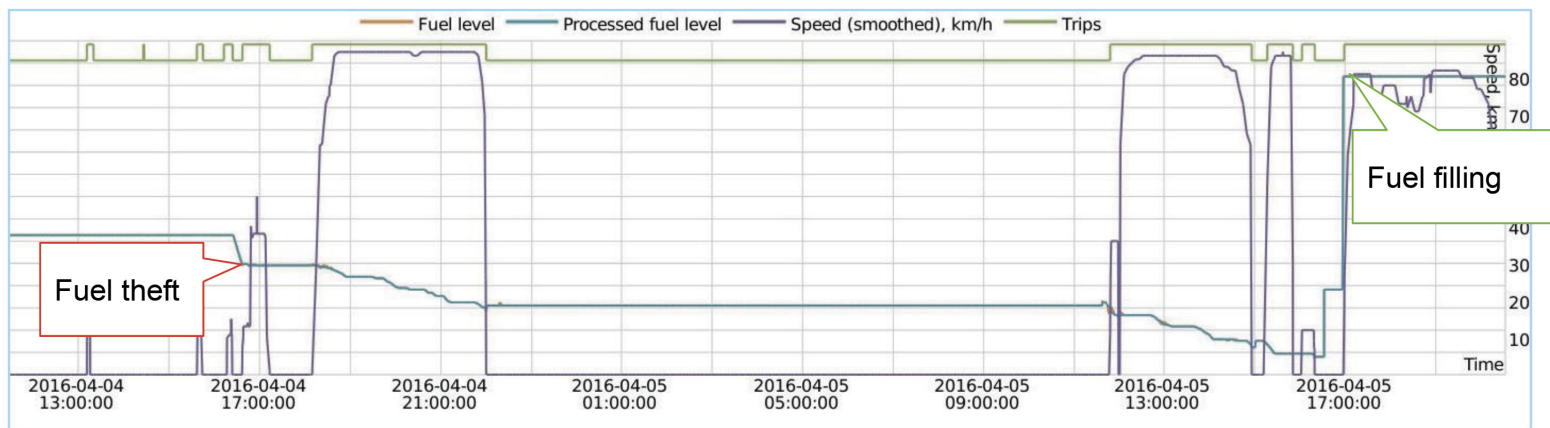
Detect any type of fuel misuse and control the whole cycle of fuel distribution from filling stations to vehicles and machinery. Fuel management allows decreasing fuel thefts by 90%.

FLS data. Analyze fuel consumption depending on a fuel level in the tank at different time points.

CAN bus data readings. Tap into fuel parameters received via CAN bus of your vehicles.

Fuel consumption by math. Use engine operation and efficiency sensors as coefficients for fuel consumption rates.

The proprietary fuel management system. Detect fuel thefts in the most complicated cases, including underfillings, card frauds, insufficient driving, siphoning, and much more.

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