ERESENSE
SenseTheWorld

EreOil

Construction Site Lubricant Automation System

The Construction Site Mineral Oil Automation System (EreOil) was developed to track the quantity of each type of oil dispensed to vehicles and the corresponding timestamps, utilizing meter systems akin to fuel automation. In systems functioning over GSM within a cloud infrastructure, the Km/Hour data of the vehicles is transmitted to the servers alongside the volume of oil dispensed.

Flow Meter
Accurate measurement of the delivered volume using flow meters installed on the hoses of oil pumps.

GSM-Based System
All oil data is transmitted to the cloud system using GSM-based devices that we have developed specifically for this purpose.

ERP Integration
Correlating vehicle oil data with the company's ERP and accounting system.

Kilometers per Hour Data
Transmission of vehicle speed data in km/h, along with additional information, during oil changes.

System Attributes

- Measuring the Oils Provided with a Meter
- Vehicle and Oil-Based Reports
- Fuel Automation Standardized RFID
- Vehicle Speed Data Acquisition
- Global Accessibility of Cloud Systems
- Integrated Fuel Automation Utilization

- Mobile GSM-Based System
- Oil Management Utilizing Virtual Tanks
- ERP and Accounting Program Integration
- Common Eresense Display Input
- Expandable Modular Framework
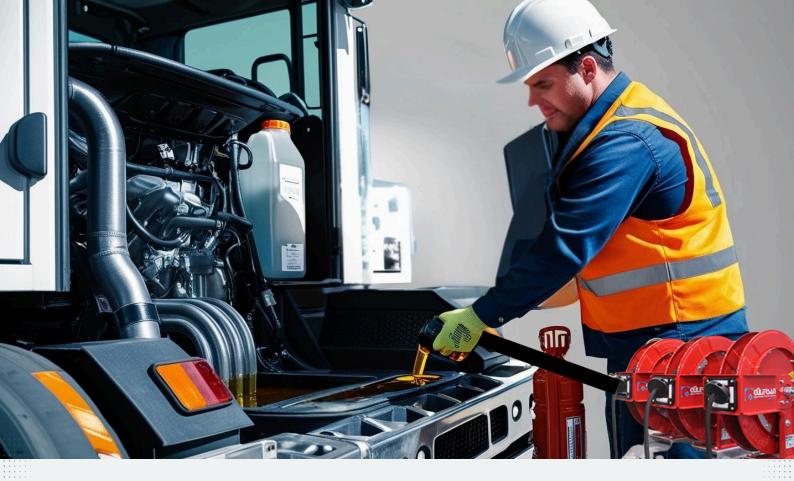- Capability to Submit Manual Oil Report

Contact Us for Data Inquiries

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System

Pulser flow meter devices are installed based on the volume of oil allocated to all reel fuel hoses within the system. These devices connect to the control module, which is also utilized in fuel automation, through an interface. The control module transmits the volume of oil dispensed for each vehicle to the servers, along with supplementary information, via GSM.

The operator reads the RFID tag of the vehicle designated for oiling using the handheld module. The operator inputs the vehicle's kilometer and/or hour information, the area, and their own registration numbers into the handheld device or has their RFID ID card scanned. Once the system identifies the vehicle associated with the scanned RFID tag, authorization is granted to the oil pumps, and the oil delivery process commences.

As a result of the process, distinct receipts are generated for each oil from the thermal printer. Operators can also obtain an end-of-day report from the device at the conclusion of the day.

All oil and supplement data is transmitted in real-time to cloud-based servers. Likewise, this information is integrated into the company's ERP and accounting software through web interface applications.