# FA-CING FUEL CHAL-LENG-ES?

## ARE YOU ON THE RIGHT TRACK TO SAVE MONEY ON FUEL?

Fuel costs can constitute up to **50%** of operational spend for any business with a fleet of vehicles.* Monitoring and managing fuel effectively is critical to get an edge on the competition.

**49%** of companies that implement fleet monitoring solutions report fuel savings as a benefit,** and on average, companies save **20-25%** on fuel with a fleet monitoring solution in place.***

* Frost & Sullivan, Logistics & Transportation
**Fleet Answers, Telematics Survey: Industry Insights in 2017, Fall 2017
*** Frost & Sullivan, Logistics & Transportation

# 01.

# Ensure safe & efficient driving habits

Bad driving habits such as harsh acceleration, braking and cornering reduce fuel efficiency by up to **33%** in highway conditions and **5%** in city conditions.* Use a fleet monitoring solution to monitor acceleration and RPMs in real time, define RPM limits and set up alarms for fleet managers and drivers when these limits are exceeded. Reducing RPMs to **50%** of the maximum value can improve fuel efficiency by **15-30%**.**

\* US Department of Energy, Saving Money on Gas
\*\* Based on Caterpillar data

DRIVERS

BAD HABITS

**NOTIFICATION** ▶

VIDEO
DOWNLOAD
RULES

MALLING OUT
THE REPORTS

Vehicles, Geofences and events to generate notification  ⌄

...

Type of associated event that overrides notification sending

Engine

Exceeding the allowed RPM

Associated event waiting period

| | d | | h | | min | | sec |

...

# 02.

# Schedule timely maintenance

Vehicles in good technical condition consume less fuel. Defective parts can make a huge difference: a faulty thermostat, for instance, can increase fuel consumption by **25%**.* Monitor vehicle parameters and schedule service intervals using a fleet monitoring solution with notifications to alert you when a service is due.

* Based on Caterpillar data

Create new maintenance task ⌄

...

Date of next
maintenance service
calculated by time

DD/MM/YYYY

Interval | 0 | days ▾

☑ Remind before | 15 | days

# 03.

# Reinforce limits on idling time

Unnecessary idling time causes up to **4%** less fuel efficiency and consumes precious engine resources.[*] A fleet monitoring solution can help you to set up notifications that alert fleet managers and drivers to unnecessary idling in order to enforce idling limits. According to recommendations from Caterpillar, 3-5 minutes is enough time for heavy vehicles to warm up after a long break. Older vehicles need about 2 minutes to cool down, but most newer vehicles can be shut down almost immediately. The engine should be shut down during loading or unloading when the waiting time exceeds 5 minutes, and vehicles should always be turned off during breaks.[**]

\* US Department of Energy, Saving Money on Gas

\*\* Caterpillar, https://www.cat.com/ru_RU/articles/boost-your-fuel-efficiency.html

Vehicles, Geofences and events to generate notification ⌄

...

Vehicles about which notification should be generated

Scania

Selection of vehicles

Type of the event triggering the notifications

Safe driving

Continuous idle engine operation

...

# 04.

# Monitor tire pressure

With the air pressure in tires just 0.4 bar below standard, fuel consumption increases by **3%**.* Monitor tire pressure in every vehicle using a fleet monitoring solution and set up notifications for your fleet manager and drivers when tire pressure is above or below standard. As a bonus, tires will last longer, cutting replacement costs: **40%** of tire damage accidents occur due to insufficient pressure, and when tire pressure is **20%** above or below standard, the tire's service life is reduced by **30%**.

\* Based on Caterpillar data

**VEHICLES** ▶

DRIVERS

BAD HABITS

NOTIFICATION

Tire pressure control          ⌄

...

| + | 1 | | 2 | + |

| + | 3 | | 4 | + |

| + | 5 | | 6 | + |

| + | 7 | | 8 | + |

0

Number of VH axes          4

Normal tire pressure, kPa          800

Allowed deviation of tire pressure, kPa          80

Maximum allowed temperature of air in tire, C          60

...

# 05.

# Monitor fuel consumption, wastage and fraud

Precisely monitor fuel consumption for every vehicle in your fleet and run statistical reports at least once a month. This is the most powerful way to reduce fuel costs, but it requires some analytical skills and statistical tools. With this analysis, you can pinpoint less efficient vehicles that need to be replaced or upgraded and identify increases in fuel consumption that may indicate technical issues, making it easier to schedule repairs before a large and costly break-down. Set up real-time notifications using a fleet monitoring solution to detect discrepancies in fuel filled versus the actual amount in the tank, or to immediately notify fleet managers of any sudden drop in fuel (a **5%** drop at once, for instance) to detect possible fuel fraud.

Truck                                                    ⌄

| Vehicle | Operation | Volume | Start date |
|---------|-----------|--------|------------|
| Scania 1 | Fuel filling | 300 | 01.04.2019 07:45:10 |
| Scania 2 | Fuel draining | 20 | 01.04.2019 07:53:13 |
| Volvo 3 | Fuel filling | 500 | 01.04.2019 14:05:31 |

An effective fleet monitoring solution can help you follow these guidelines and save money on fuel. Are you on the right track to save money on fuel?

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