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Measuring the exhaust gases of forklifts

OVERVIEW

Many forklifts have engines that use propane, natural gas, diesel or other combustible fossil fuels. In all such cases, there are issues both in terms of the vehicle's efficiency and safety in the workplace.

THE PROBLEM

The use of forklifts with engines powered by fossil fuels requires three problems to be addressed:

- Optimizing combustion efficiency by maximizing fuel savings;
- Identifying and quantifying emissions that can be harmful to the safety and comfort of the work environment;
- Measuring and reducing harmful emissions in the forklift exhaust.

THE SOLUTION

Greater combustion efficiency means clean combustion, lower fuel consumption, fewer maintenance requirements and thus an overall better performance of the forklift, with a reduction in operating costs.

In this context, the combustion and emissions analyzer serves as a diagnostics and maintenance tool by quantifying the efficiency of the forklift by measuring parameters such as O_2 (for the calculation of the air/fuel ratio) and CO.

Through the analysis of the exhaust gases, it is then possible to fine-tune the engine so as to bring the extent of harmful gases to within permitted limits. Lowering emissions ($NO+NO_2$) – and consequently, improving air quality – increases the level of safety and comfort for the forklift operator, as well as for other workers within the same workspace.

The analyzer we recommend for such use is the Novo with O_2, CO, NO, NO_2, NOx ($NO+NO_2$) sensors.

- 7” Touchscreen
- Up to 4 gas sensors
- Mobile App - iOS, Android
- Built-in or external printer
- Field-replaceable sensors
- Software PC included