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# Emissions Testing

## Do You Know Your Carbon Monoxide Emissions Level?

Carbon monoxide (CO) is a dangerous gas produced by gasoline and propane powered forklift trucks.

When forklifts are operating or idling, they continuously produce CO gas.

Poisoning can occur when forklift exhaust is not removed from the working environment.

Watch for CO poisoning if gas or propane forklifts are used in the following situations:

- In cold rooms, controlled atmosphere rooms, truck trailers or shipping containers
- In sealed warehouses during fumigations
- In warehouses or enclosed areas that do not have enough fresh air
- When loading trucks that have their engine running. Both the forklift and the truck add carbon monoxide to the air.



Carbon monoxide builds up when forklifts are used indoors without enough fresh air. You cannot detect carbon monoxide. It is odorless, tasteless and colorless. You can be around very high levels of carbon monoxide and not realize there is a problem.

**Risks increase during the Colder Weather as fresh air exposure is much more limited.**

## Get your Emissions Tested with an Exhaust Analysis

An Exhaust Analysis on a gasoline or propane powered forklift truck includes:

- Emission testing for CO
- Minor adjustments on the machine to improve its functionality
- A written analysis report
- Suggestions to ensure your equipment meets the required specifications
- A quote, upon request, of the costs to repair your equipment so it meets the safety standards



**Cost to Perform Test - \$65.\***

\*Does not include Van Charge - Covers minimum testing only, taxes extra, applies within regular service areas only  
Price valid through April 30, 2016

# Carbon Monoxide and Your Forklift

## Be Aware of the Hazard

When forklifts are used inside of buildings and confined spaces, dangerous levels of carbon monoxide (CO) can build up quickly. CO is a poisonous gas that can cause dizziness and nausea. In high concentrations it can kill. Because it is impossible to smell, taste or see CO, it's crucial that you be aware of its dangers and do as much as you can to avoid overexposure before symptoms occur.

### *The Problem*

Forklifts powered by gasoline, propane and diesel fuel emit CO in their exhaust. In tightly insulated, enclosed areas, high concentrations of CO can remain for several hours after the last entry by a forklift. Emissions are worse from vehicles that are not tuned up, but even a new, factory-tuned vehicle can create a CO problem if it is used in an unventilated environment.

### *Recognizing the Symptoms*

CO interferes with the blood's ability to carry oxygen. As CO accumulates in the blood, less and less oxygen is carried to the body and brain, which need oxygen to survive. Low exposures cause slight headaches. As concentrations increase, weakness and dizziness may occur. High exposures can cause nausea, vomiting, confusion, collapse, coma and even death. Be alert for CO poisoning year-round and especially during the winter months, when doors and windows are kept closed and ventilation is reduced. If you suspect CO poisoning, don't wait for symptoms to worsen. Headaches or dizziness during or after forklift operation should be reported immediately.



### *Reducing the Risk*

You can do several things to reduce your exposure to CO:

- Drive smart. Avoid racing the engine, braking erratically, idling for long periods and jerky operation of the hydraulic systems. All of these increase CO emissions.
- Cold starts generate higher CO concentrations.
- Avoid storing or parking forklifts in cold areas to reduce warm-up time and exhaust gases.
- Make sure equipment is properly tuned up.
- Ask whether your vehicle can be fitted with a catalytic converter to reduce CO emissions.
- Whenever possible, do not leave your forklift running inside a shipping truck or other container. Remember, hazardous concentrations build up quickly in these confined spaces.

### *Take the Team Approach*

Be alert to the dangers of CO exposure. Practice responsible driving techniques to reduce CO buildup, and encourage your co-workers to do the same.