

VALVTECT

FUEL TECHNOLOGY BEYOND GASOLINE & DIESEL

YOUR PROPANE. A COMPETITIVE ADVANTAGE.

CGX-4®

PREMIUM LPG/PROPANE AUTOGAS ADDITIVE WITH CH25X® TECHNOLOGY

Take propane performance beyond the ordinary.

CGX-4 is a premium fuel additive formulated to help reduce fuel-system deposits, improve combustion efficiency, protect critical engine components, and reduce certain exhaust emissions.

BETTER FUEL. BETTER PERFORMANCE. MORE VALUE.

FOUR CORE PERFORMANCE ADVANTAGES

1. REDUCE MAINTENANCE

CLEANER FUEL SYSTEMS.
FEWER DEPOSIT-RELATED PROBLEMS.

CGX-4 helps remove existing heavy-end deposits and prevent new buildup in carburetors, injectors, and vaporizers.

By helping maintain cleaner fuel systems, CGX-4 can reduce problems associated with deposits and help minimize maintenance-related interruptions.

2. PROTECT CRITICAL COMPONENTS

ADDED PROTECTION WHERE EQUIPMENT NEEDS IT.

CGX-4 provides lubricating properties that help reduce wear associated with inadequate upper-end lubrication.

It also helps protect diaphragms, gaskets, and rubber components while supporting corrosion prevention and fuel stability.

3. IMPROVE ENGINE PERFORMANCE

BETTER COMBUSTION.
MORE EFFICIENT OPERATION.

CGX-4 promotes more efficient combustion and helps address pre-ignition problems.

The formulation supports improved fuel economy and helps disperse water to reduce icing-related problems in propane fuel systems.

4. REDUCE EXHAUST EMISSIONS

DOCUMENTED IMPROVEMENTS IN EMISSIONS PERFORMANCE.

CGX-4 has demonstrated reductions in carbon monoxide and hydrocarbon emissions during documented forklift testing.

These results provide an additional performance benefit for commercial and industrial LPG engine applications.

AN ESTABLISHED TECHNOLOGY

FORD MOTOR COMPANY SERVICE-MANUAL REFERENCE

One of the historical testimonials documents the following recommendation from a Ford Motor Company service manual:

> **"Use only high quality propane designated as motor vehicle fuel (MF). The use of fuel additives such as CGX-4 or equivalent will significantly reduce impurity deposit build-up and is recommended."**

Source: Ford Motor Company service manual



WHERE CGX-4 MAKES A DIFFERENCE

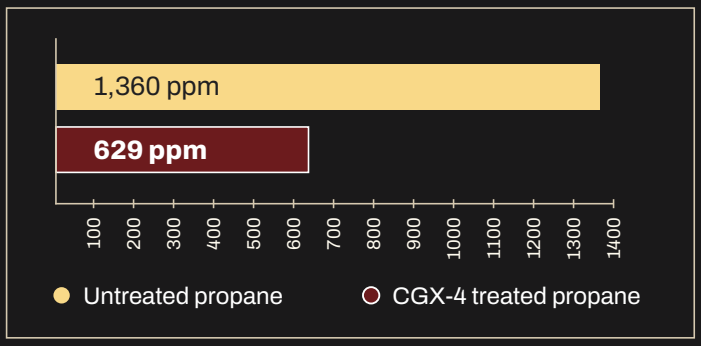
- Forklifts and material-handling equipment
- Warehouses and distribution centers
- Industrial and manufacturing operations
- Commercial LPG/autogas fleets
- LPG engines and approved converted-engine applications

PUT PERFORMANCE TO THE TEST.

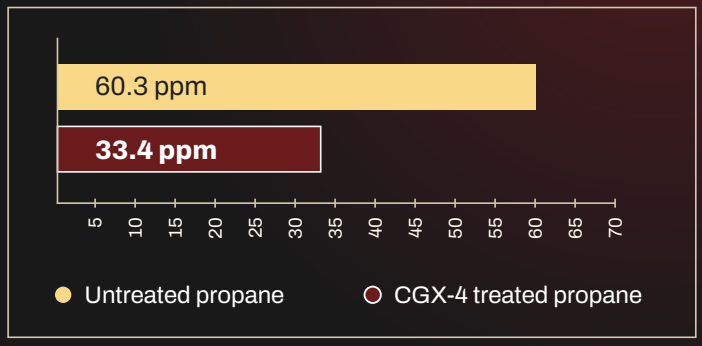
DOCUMENTED EMISSIONS REDUCTIONS WITH CGX-4 TECHNOLOGY.

HERO PERFORMANCE RESULTS

54% LOWER CARBON MONOXIDE UNDER LOAD



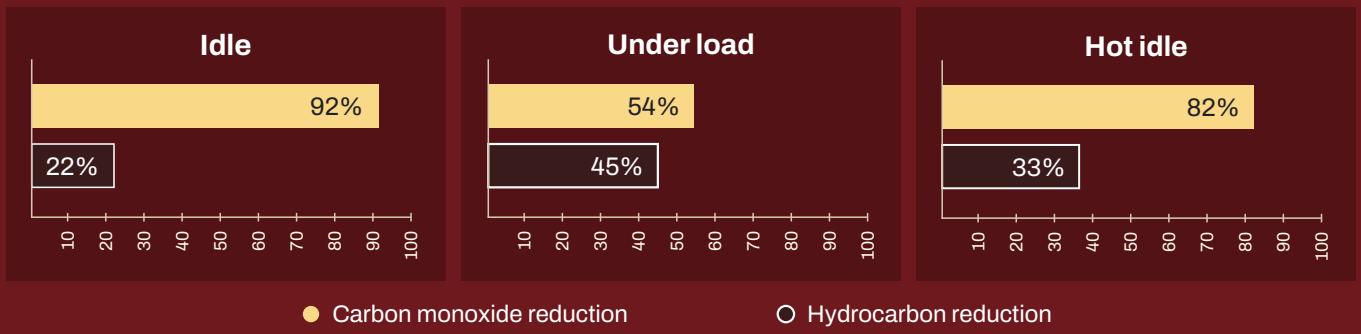
45% LOWER HYDROCARBONS UNDER LOAD



The percentages are rounded calculations based on the reported measurements.

PERFORMANCE ACROSS MULTIPLE OPERATING CONDITIONS

OPERATING CONDITION



These are rounded reductions calculated from the original reported ppm concentrations.

THE DIFFERENCE IS MEASURABLE.

In the documented forklift evaluation, propane treated with CGX-4 demonstrated lower carbon monoxide and hydrocarbon concentrations at idle, under load, and hot idle compared with untreated propane.

The test results demonstrate the potential of CGX-4 technology to improve emissions performance in propane-powered equipment.

Source: ROUSH Industries forklift emissions evaluation, December 29, 2017. Testing compared untreated propane with CGX-4 treated propane at a 1:2,000 treatment ratio. The evaluation involved one newer-model forklift equipped with a catalytic converter, with treated measurements obtained following 24 hours of operation. Results are specific to the equipment and conditions tested. Actual results may vary.

DON'T JUST USE PROPANE.

USE PREMIUM PROPANE.

REAL-WORLD EXPERIENCE. REAL CUSTOMER RESULTS.

PHILLIPS OIL & GAS

THE PROBLEM: FUEL-SYSTEM BUILDUP AND HIGH MAINTENANCE COSTS

Phillips Oil & Gas described a municipal fleet customer experiencing excessive buildup in LPG conversions and related maintenance expenses.

After upgrading the customer's propane with CGX-4 technology, John Phillips reported:

> **We upgraded their propane with CGX-4 technology and the problems disappeared. I now have a loyal satisfied customer."**
>
> **John Phillips, Phillips Oil & Gas**
> Gloucester Point, Virginia

OLIN CORPORATION

THE CHALLENGE: CARBON MONOXIDE IN AN ENCLOSED WORK ENVIRONMENT

Olin Corporation reported concerns regarding carbon monoxide levels associated with propane-powered forklifts operating inside an enclosed manufacturing environment.

Following the introduction of CGX-4, the plant manager reported that workplace testing showed a significant reduction in carbon monoxide levels.

> **Since we are involved in making ammunition, the work areas of the plant need to be closed to the outside throughout the year. Propane forklifts operating in these areas were causing the levels of Carbon Monoxide to be higher than the safety and hygiene department felt were acceptable. Since using CGX-4, testing of the enclosed workplace have shown a significant reduction in Carbon Monoxide levels."**
>
> **Plant Manager, Olin Corporation**
> East Alton, Illinois

1:2,000
RECOMMENDED TREATMENT RATIO

1 GALLON
TREATS 2,000 GALLONS OF PROPANE

55 GALLONS
TREATS APPROXIMATELY 110,000 GALLONS OF PROPANE

Treatment performance depends on fuel and storage conditions.

MAKE YOUR PROPANE AN ADVANTAGE.

You depend on their equipment. **Here's** another reason to depend on your propane.

Discover how CGX-4 can help your fuel offering.

LET'S TALK ABOUT YOUR PREMIUM PROPANE PROGRAM.

VALVTECT PETROLEUM PRODUCTS

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