

## LOCOMOTIVE DEVELOPED FOR USING LIQUEFIED PETROLEUM GAS

The Union Pacific Railroad Company announced on June 16 that they had tested the first locomotive to be powered with propane gas. These tests were very satisfactory and the results speak for themselves.

This locomotive weighed only 276 tons and pulled a freight train of 79 cars which had a weight of 4,650 tons. This one power unit developed 4,800 horsepower or more than three diesel powered units operating together.

## LIQUEFIED PETROLEUM GAS AS MOTOR FUEL

It has been proven through actual use by bus lines, truck fleets, taxi fleets and other users that your LP Gases, butane and propane, are the most nearly perfect fuels available for internal combustion engines. Their use as a motor fuel first began on the west coast and has now spread all the way to the east coast. Although the use in the eastern part of the United States has just recently started, these gases were used as long as 20 years ago as a motor fuel.

You can readily see that this is not something new by any means. Today you will find that several of your manufacturers of trucks and tractors offer their equipment for use with either gasoline or LP gas. In the not too distant future you will be offered your new automobile to come equipped, if you desire, to burn butane or propane gas.

The advantages of these fuels are many and varied. One of the expenses of any internal combustion engine is the frequent oil changes. Petroleum engineers state that oil DOES NOT WEAR OUT. The oil does, however, become dirty, contaminated and diluted. This means an oil change. Your LP Gases, with no carbon to dirty the oil or liquid to dilute the oil, make frequent oil changes a thing of the past. This lack of carbon and dilution does away with fouled spark plugs and gummed rings and lets the engine be lubricated as it should be. All this tends to increase the life of the engine and cut down on maintenance costs.

Another advantage to users of heavy equipment such as tractors, trucks, industrial engines, etc., is the increased pulling power or "lugging ability". Many tractors have stated that they are able to go up hills one gear better than with gasoline, giving a savings in both time and fuel. Trucks powered with LP Gas are being seen more and more often on the

highways today. The modern farmer today can heat his house; heat water; refrigerate; cook and run his farm equipment on LIQUEFIED PETROLEUM GAS. Using this fuel around his home, it is easy to see why the modern farmer is turning to LP Gas to burn in his tractors and trucks.

## Industry Turning To Gas For Help

The industrial field for gas, the fuel, has so many ramifications and technical problems that it requires highly specialized sales and engineering ability.

Gas so far has found more than 22,000 distinct applications in industry, and additional uses are continuously being developed.

One common industrial application to cite an example is the heat treatment of steel and other metals to harden them. For this purpose gas can maintain for hours constant temperatures, often as high as 1,800 degrees Fahrenheit, within a variation of five degrees. Constancy of high temperature is a prime requirement in heat treating.

During the way the gas industry not only played an important part by maintaining vital home services, but also did its full share, and more, to build up immense output of munitions.

Research during the war developed methods of high speed gas heating which are revolutionary in nature and accomplishment.

In these ways the gas industry helped win the war. In doing so it also enlarged its own capacity to help American business attain new heights of commercial and manufacturing efficiency in the years just ahead.

## Gas Meets Test Of General Public; Wins Acceptance

The superiority of gas and gas cooking appliances has been well proved in more than 27 million American homes where gas is used today.

The value of any product is proved by public acceptance and Green's Fuel can point to the fact that sales increase rapidly each year as evidence that the public has more than accepted it as an inexpensive, reliable fuel.

"Green's Fuel sales in the Southeast show a fine gain each year," says J. S. "Jim" Dunford, manager of the Western Gas Service. "The public believes in Green's Fuel and sales records bear out this faith. Gas is now one of the leading industries in the United States."

Utilizing the technical improvements of recent years, America's foremost industrial engineers have made gas ranges as modern and attractive as they are efficient.

The modern gas range is consistently demonstrating its superior convenience, flexibility and economy. The continuous service offered by gas is an important factor in the popularity of gas cooking.

"Millions of dollars have been expended on extensive research and product development of the modern gas range," Dunford said. "Western Gas Service is proud that it can offer such modern, efficient and flexible ranges to the public. We are firmly convinced that our ranges are the finest that money can buy."

Regardless of the needs of the individual family there is a modern gas range for every need from the compact cooker for use in a small house or apartment to the deluxe six or eight burner range for the swanky home. Only in modern gas ranges will a person find large variety of style, models, sizes, top burner arrangements, broilers and over combinations to fit every need.

Modern gas ranges bearing the famous CP trademarks, in addition to the AGA star of approval and their own brand name are built to rigid high performance standards set by leading manufacturers, gas utilities, leading home economists, engineers and homemakers.

"We have found that once a person uses a gas range they will not give it up for another type," Dunford says. "That is the kind of loyalty which has built our business."

## Versatility Of Gas In Communication Field

Distance is no obstacle to the engineers who work with scenes and sounds. Miles are merely a challenge calling for improved methods and means of transmission.

Here, in the development of these modern systems of communication, gas continues to play another of its major roles as an industrial processing fuel.

In radio and television, the versatility of gas is well demonstrated. The familiar tubes in receiving sets, the picture screens of television, the giant tubes of transmitter stations—these are products of gas-fired, gas melting tanks, forming molds, stem machines and annealing ovens.

In addition, the miles of copper wire, the thousands of filaments and the myriad heat-treated parts of a radio or television set were processed in one of the many gas fires united in the production line.

For telephone and cable manufacturing, the use of gas is so common that it is frequently overlooked. Brazing, annealing, laminating, are just a few of the many ways in which manufacturers apply gas. Yet these processes emphasize the virtually unlimited opportunities for efficient heat-processing with gas.

Photography and printing, two other methods of bringing you the world's sights and sounds, have at least one common bond. In the manufacture of cameras and photographic materials and in the printing of newspapers and magazines gas always has been an important factor—essential in mechanical, chemical and physical operations. To enumerate each application is unnecessary but it's in these widely varied fields of communication that the versatility of gas is demonstrated.

For any industrial application in the manufacture of communication equipment, metal products, textiles, chemicals, foods, the advantage of gas can be readily proved. There's always a way to do production-line heating simply and economically with gas.

The Western Gas Service in Edenton will be happy to give you details or help you solve your problems.

### GAS DEPENDABLE

Dependability of gas service, low first cost of modern gas ranges, low cost of upkeep, low operating cost and modern insulation which prevents heat loss and conserves fuel are features of gas service.

GREEN'S FUEL IS SAFE



## NEW GLAMOR comes to Gas Ranges



The completely new, completely automatic

COLOR-STYLED

# Caloric GAS RANGE

Only Caloric brings you this ultimate in kitchen styling. Choose the color handles that harmonize with your kitchen color scheme; we simply snap them on! See all the new efficiency features in the new, streamlined Caloric: the modern background design that provides convenient, carefree cooking... the miracle automatic features that banish matches, cook for you while you shop.

Detachable handles in 12 gay decorator colors  
 Vermilion • Pink • Maroon • Forest Green • Aspen Green • Royal Blue • Azure Blue • Brown • Tan • Sunburst Yellow • Gold • Chrome-tone  
 America's Easiest Ranges to Keep Clean

## Western Gas Service

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**YET ONLY**

Across-The-Top Freezer Chest  
 Latest style! Grand convenience! Holds a whopping 26 pounds!

Across-The-Bottom 18 1/2" Crisper Drawer  
 Big moist-cold space for fruits, vegetables, beverages!

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And you get Seven cubic feet cold space in a quality cabinet only 24 1/4" wide, 27 1/2" deep, 53 1/2" high. Spacious 13.9 sq. ft. shelf space. Brilliant new "Leonard-Gold" styling. Year-after-year dependable operation with Leonard Glacier Sealed mechanism.

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