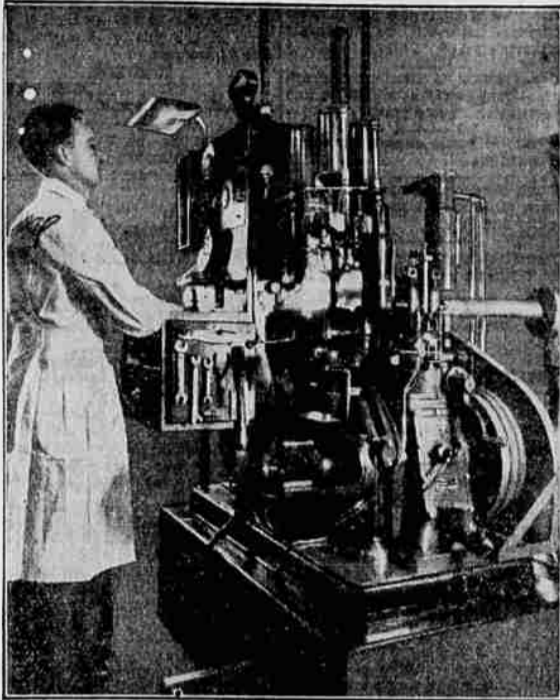


# Local Firms Participate in Construction of New Stations Here

## NO FUEL CAN FOOL THIS KNOCK TESTER



Octane, a word familiar to all motorists, is still a mystery to most petroleum scientists believe. Above is shown a testing engine in General Petroleum's laboratories used to determine the exact octane value of a gasoline. You can't fool this machine for its mission in life is to knock.

Octane is a word familiar to all motorists, yet few know its real meaning, in the opinion of the majority of petroleum scientists. Some people think it refers to a substance, others to a measure of anti-knock value. Both are to a certain extent right, but few of them are sure just how right they are, or why.

**Explains Term**  
To make the term and its application to gasoline clear to its retail salesmen, General Petroleum Corporation, producers and distributors of General Mobilgas, has prepared a printed explanation for its employees. Gasoline, the brochure points out, is a mixture of many different hydrocarbons, and these hydrocarbons in turn are various combinations of hydrogen and carbon. Scientists have theoretically isolated many of these different combinations. One of them is known as "octane" and contains eight parts of carbon and eighteen parts of hydrogen.

**Iso-Octane**  
These parts of carbon and hydrogen may be grouped in different arrangements, one of which is known as "Iso-Octane". It is this synthetic product which is used as a standard by which to measure the anti-knock value of a gasoline. Because of its high anti-

knock tendency, Iso-Octane is arbitrarily assigned the number 100, while another hydrocarbon belonging to the heptane family, containing seven parts carbon to sixteen parts hydrogen and which has a very low anti-knock value, is given the number 0.

To determine the octane value of a gasoline, the fuel is burned in a carefully standardized testing engine such as General Petroleum has in its Vernon laboratories. By reference to the behavior of octane, scientists can say this gasoline, (the one they are testing) knocks just as much as a theoretical fuel composed of, say, 68 parts of octane and 32 parts of heptane. In other words, the gasoline would have an octane value of 68, which is nothing more or less than its anti-knock rating.

**Octane Numbers**  
The use of an octane number with reference to gasoline, the brochure emphasizes, does not mean that the fuel contains that percentage of octane, but merely refers to the anti-knock value of the gasoline as measured by this scale which is called octane numbers. General Mobilgas, it was pointed out, has one of the highest octane ratings of any non-premium gasoline on the market.

## MOBIL OIL GIVEN RIGID TESTS IN EXTREME CLIMATE

With its new product completed and ready for distribution, Socony approached the question of practical tests, according to W. F. Carper, lubricating engineer for the General Petroleum Corporation in Portland. At Lake Placid, New York, in the heart of the famous Adirondack mountains, and again at Moose Harbor in the noted Hudson Bay region, in sub-zero temperatures, the new product, new Mobiloil, went through every form of practical and competitive demonstration that automotive engineers could devise to positively prove its fluidity, its resistance to extreme cold. It not only passed every requirement, but was found to excel any competitive oil on the market.

In the searing, scorching heat of Death Valley, California, the new oil again met every requirement and surpassed the performance of all competitive products. For example, with the thermometer steadily above 120 degrees F., one car, with radiator removed, ran continuously for ten hours with no cooling agent but Mobiloil.

Throughout the United States the Socony Vacuum test fleet, consisting of many different makes of cars, put the new product through its paces, and without exception reported results far in excess of many other motor oils on the market.

Aeroplane transportation is becoming more and more common every day. A modern oil must meet the requirements of this modern transportation. A fleet of test planes tried the new oil for speed, endurance, consumption, operation, under different temperatures and every other condition and the oil was pronounced perfect. Today's speeds give motor oil 9 times the beating it took three years ago.

**Substantial Gain In General Volume**  
The substantial gain in gasoline sales for the General Petroleum Corporation in Oregon during recent months is attributed to the energetic co-operation of independent dealers, as well as company owned operations by District Manager Higgins in a statement today. State statistics show that General Petroleum has shown a larger percentage gain than any other company during the past few months. Mr. Higgins said, and this splendid record is a tribute to both independent dealers and company stations.

**Storms Moved Huge Rock.**  
NORWALK, Conn.—(UP)—The fury of the winter's blizzard and severe storms on Long Island Sound cast a 20-ton rock beyond the high tide mark at Rowayton Beach. Previously it had been part of a jetty and could not be seen at low water.

**Job Came Too Late.**  
BRIDGEPORT, Conn.—(UP)—A job came too late for Jules Howard, out of work for months. A friend hastened to his home to tell him he had found him employment and discovered Howard had died a few hours previous.

## WORLD FLIER PICKS U. S. PLANE, GAS, FOR RACE

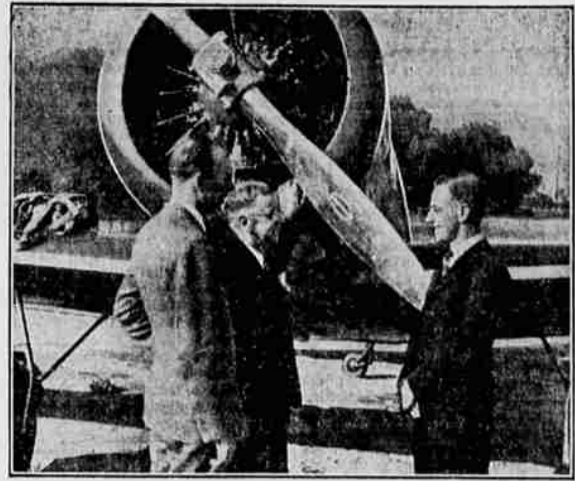


Photo shows Sir Charles Kingsford-Smith, accredited world's greatest flier and the only man who has ever taken an airplane across the Pacific from the United States to Australia, talking over plans for the forthcoming international London to Melbourne race which will be held this fall. Left to right, C. H. Wirtman, manager of the refined oil sales division of General Petroleum Corporation, affiliate of Socony-Vacuum Corporation; G. F. Olson, manager of the Laboratory Department of the same company; and Kingsford-Smith. The plane is a Lockheed-Altair, the type Kingsford-Smith will fly in the race.

### Cigaret Killed Two.

NEWPORT, R. I.—(UP)—Two babes died here, victims of a mother so fond of cigarettes as to pick a discarded butt from the street. The weed, still smouldering, set fire to a starling's nest in the eaves of a dwelling.

### PORTLAND, June 19.—(AP)—The

unusual number of orioles found this year in Portland was today attributed by W. A. Eliot, president of the Oregon Audubon society, to a change in the birds' habits, resulting from a drying of eastern Oregon lakes.

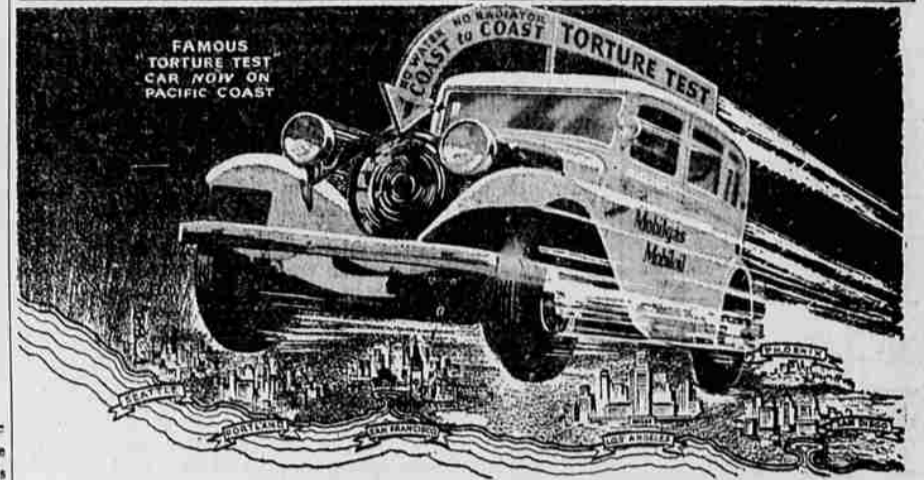
## MANY ENJOY DAY AT DIAMOND LAKE

DIAMOND LAKE, Ore., June 19.—(Sp.)—Among the many Medford people who enjoyed the delightfully cool week end at Diamond Lake were:

Mr. and Mrs. J. A. Perry and daughter, Frances Flinn; Mr. and Mrs. J. W. Wakefield and granddaughter, Jack Walker, Dr. and Mrs. C. W. Lemery, Miss Adra Edwards, Miss Viola Terripleton, Mr. and Mrs. H. R. Prentice, C. W. Wakefield, Miss Marion Ness, Heister Whitman, L. A. Bishop, Mr. and Mrs. E. D. Graham, Fred Scheffel, Mr. Byron, R. DeVore, Frank George, R. J. Nacker, Dr. Lee, Dr. W. W. Howard and party, Henry Haswell and party, W. W. Allen, V. J. Emerick, Sam Jennings and party and Harvey Fields and party.

## Sams Valley Unit To Meet Thursday

SAMS VALLEY, June 19.—(Sp.)—Sams Valley Extension unit will meet Thursday afternoon at the home of Mrs. J. L. Frink. Projects to be taken up are bread making, the fitted dress patterns and buymanship, which includes learning to detect silks, wools, and other materials in purity or mixed products. A chairman and secretary for the year are to be chosen. Mrs. Frink will serve refreshments and desires a good attendance.



## TORTURE TESTED from COAST to COAST

Operating constantly without radiator or water, the self-same torture test car that made the sensational run from Atlantic to Pacific has proven the superiority of this new super motor fuel under every climatic and motoring condition to be found in Washington . . . Oregon . . . California and Arizona.

General Mobilgas

**Mobilgas**

with TETRAETHYL

Companion to Mobiloil

World's Largest Selling Motor Oil

GENERAL PETROLEUM CORPORATION A SOCONY-VACUUM COMPANY

—THE—

**HOTEL MEDFORD**

CONGRATULATES

the—

**General Petroleum Corp.**

Upon the completion of their attractive new station at Main and Ivy street—opposite this hotel . . . We are glad to have you as our neighbor in Medford's Civic Center.

**HOTEL MEDFORD**

P. G. "Pete" Denson, Manager.

The General Petroleum Corporation

Takes Pleasure In Announcing The

**Opening of TWO FINE NEW SERVICE STATIONS In Medford**

Main and Ivy Streets  
600 East Main Street

Affording Two Convenient Locations For Motorists to Secure

**MOBIL OIL and MOBIL GAS**

A Cordial Invitation —

We are taking this opportunity to extend to southern Oregon people a cordial invitation to visit our two new stations, inspect our complete, up-to-the-minute facilities for providing the finest of service to motorists. You will find our attendants glad to show our stations to you and ever willing to offer intelligent, friendly service if you drive a car . . . The completion of these stations evidences the confidence we have in the growth and development of this splendid city and the southern Oregon country!

• GENERAL PETROLEUM CORPORATION •

**CONCRETE WORK**

For the New Attractive

**General Petroleum Company SERVICE STATION**

Was Installed By

**SULLIVAN & MILNES**

820 Narregan St.

**PAINTING**

We are proud to have been the painting contractors for this new General Petroleum Station

**LEE HUGHES** Painting Contractor

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