

Some Pointers on Oil Burners, Explaining the Combustion Process

The burning of oil is quite old. The first homes using oil were heated by a burner commonly known as a gravity type, called vaporizing type. The oil was not atomized nor broken up, but was burned in its natural state, until it became warm enough to form a gas. This gas arising was mixed with air drawn through the burner by the draft in the chimney. There was no arrangement for the adjustment of air, and usually when more heat was wanted, they would simply burn more only. This type of burner was never automatic or clean.

The next series of burners were made in many types and designs, called atomizing types. Some were blower or pot type, rotary and pressure type. Some of these have fans, others have blowers or air compressors, and others are of the rotary or revolving type. Regardless of the method used to atomize the oil, they all burned oil in suspension.

Proper combustion means nothing more or less than using up the heat units in oil, coal, or whatever the fuel may be. When burning oil, certain fundamentals can not be ignored. Since it is impossible to mix air with oil in a liquid state, and it is nearly impossible to mix air with a flame, because a flame is higher in temperature, it becomes necessary to do more than atomize the oil to get the air and oil mixed properly to make perfect combustion. It has been found that if oil is atomized, vaporized, and then gasified, air can be mixed with oil so that perfect combustion is maintained, and the fire can be placed against cold walls of the boiler. This is the big thing in oil-burning that has revolutionized the industry, and made oil heating economical. The fire will be blue with orange tips, and this kind of a fire, when striking cold walls of the heating plant does not cause carbon, soot, or dirt of any kind.

Oil burning to be satisfactory must be as clean, quiet and dependable as city gas. The only way this is possible in domestic or home-heating plants is to first atomize, then vaporize, and then gasify the oil before burning. Heavy oils can be atomized, but not vaporized or gasified, and the fire cannot be placed where it should be. To be economical, the fire must be placed at the sides and bottom of the boiler. The first to accomplish this wonderful and remarkable method was the Silent Automatic Corporation of Detroit, Mich. In the fifth year of its existence, more people bought Silent Automatic Oil Burners than any other model. (See "Fuel Oil" January, 1930 issue.)

PRESS OFFERS FREE FOOTBALL TICKETS

(Continued from page 3)

the following Saturday's football games, with a cross before each team in which the contestant is to place the score he thinks that team will make the following Saturday. Again, the answers must be written in the ads, and the copies brought or mailed to the Press before Saturday noon, October 4. Those three whose guesses are nearest will be awarded tickets for the Northwestern-Ohio State game on October 11, the next five nearest the correct answers being given passes to the Aleyon theatre.

Similar contests will be held in October 16 issue, winners of which will be awarded tickets to the Northwestern-Centre game on October 25; in the November 6 issue, with winners drawing tickets to the Northwestern-Wisconsin homecoming game on November 16; and in the November 13 issue, when tickets will be given for the Northwestern-Notre Dame game that closes the season on November 22.

Readers are requested to remember the few simple rules: 1. that answers must be made on the ads that appear in the Highland Park Press; and 2. that answers must be brought in or mailed before Saturday noon of the Saturday following the Thursday in which the advertisement appears. All answers brought in or postmarked after that time will be invalidated.

SPECIAL ASSESSMENT NOTICE SPECIAL WARRANT NUMBER 9

Public Notice is hereby given that the County Court of Lake County, Illinois, has rendered judgement for a special assessment upon property benefited by the following improvement: For a local improvement consisting of the acquiring and improving as a public park of lot one (1), excepting the easterly ten (10) feet thereof, Block 50, Highland Park, Lake County, Illinois, as will more fully appear from the certified copy of the judgement on file in my office. That the warrant for collection of such assessment is in the hands of the undersigned.

All persons interested are hereby notified to call and pay the amount assessed at the Collector's Office, City Hall, 125 So. St. John's Avenue, Highland Park, Illinois, within thirty (30) days from the date thereof.

Notice is further given that the said assessment is divided in twenty (20) installments. That the amount of the first installment is \$11,030.61 and that each of the remaining installments is \$4,351.63. That all installments draw interest at the rate of 6 per cent per annum from August 26, 1930. The first installment is payable on or before the 2nd day of January, A.D. 1931.

The second installment one year thereafter and so annually until all installments are paid.

EDW. M. LAING,
Collector for the Highland Park
East Park District.

DATED at Highland Park, Illinois, this 28th day of August, 1930. 26-27

Choral Club Rehearsal

Rehearsal for the Choral club of the Highland Park Music club will begin Monday, Sept. 8 at 2 p. m. at the Y. W. C. A. All members of the music club are eligible.

THOMAS J. LYNCH, INC. Tree Surgeons

Using the latest methods and equipment and offering the finest Tree Surgery Service available on the North Shore.

Pruning - Spraying - Tree Surgery
Feeding, etc.

Power Sprayers Pneumatic
Cavity Machines

GLENCOE

514

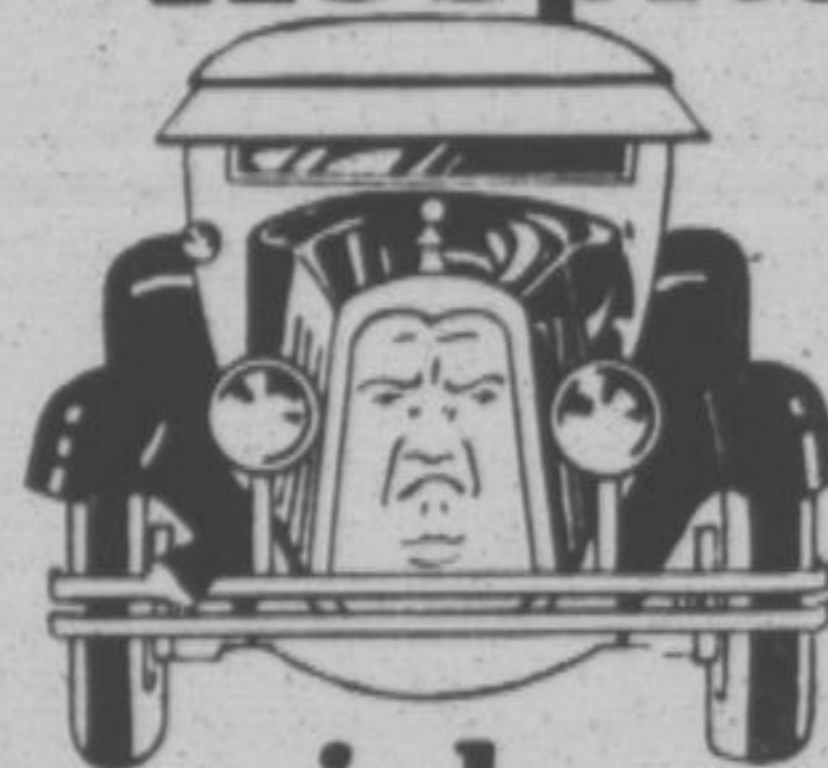


WINNETKA

1294

561 Lincoln Avenue - Winnetka
15 years same location on the North Shore

+
Hospital



for sick cars

Honest work
Low prices

The Only Way
to Keep a Car
from Having a
Breakdown is
to Give it
Steady Doses of

GOOD OIL
and
GASOLINE

ELM PLACE SERVICE STATION

SINCLAIR GAS AND OIL

Corner of First Street and Elm Place

For the NEW MAJESTIC RADIO

see

Highland Park's Exclusive Dealer

Highland Park

STEFFEN AUTO SUPPLY

Phone Highland Park 350