

Shell TCP Gas Now Ready for Torrance's Cars

New Discovery Hailed Greatest in 31 Years

More than five years ago, Shell scientists undertook a very important job of research for the aviation industry. The problem was spark plug fouling; i.e., the shorting out of spark plugs due to metallic deposits. It was a costly problem, and—worse still—it had defied every effort to

plug fouling is serious because the metallic deposits become conductors at high powers and short out the plugs. Results: faulty ignition, loss of power, and severe roughness in the engine. It was a costly problem because there was nothing to do about a fouled plug but replace it; and fouling often happens long before the otherwise normal life of a plug is ended. Aircraft engine plugs cost up to \$4.00 each—not counting the operational time out for changing them, or the maintenance time in the job; and there are as many as 56 in an airplane engine.

Because of the nature of the beast, it looked like a problem for a specialist in gasoline; so Shell tackled it. For months Shell's chemists studied, experimented, tested, trying for something that would cancel out those metallic deposits.

And finally they found it: a cresyl (rhymes with vessel) compound, added to gasoline in a certain concentration, make the deposits harmless. Most of the stuff was blown out the exhaust; but the small amount that remained, no longer conductive, wasn't causing any fouling.

It looked wonderful; but scientists are never satisfied until they've disposed of the last shred of possible doubt. They gave their compound test after test in laboratory engines, under much tougher conditions than you'll find in ordinary service. And their compound continued to reduce fouling.

Then they tried it in military airplanes—and in civilian planes too. Plug fouling is as much a headache to one as it is to the other. (The Boeing Stratocruiser, for example, takes 224 spark plugs. That runs into money.)

For the last two years the discovery christened "TCP" has been used in Navy fighters and Air Force bombers. It is in world-wide use in certain military and commercial helicopters, where sustained high-power operation makes the fouling problem unusually severe. It is being tested by a number of airlines; and at least one major airline has exhaustively studied its performance in actual flight with electronic engine analyzers—with highly successful results.

When they knew that TCP would whip plug fouling in airplane engines, Shell engineers began testing it in automobiles. It got more testing by the Southwest Research Institute in Texas. And they learned this:

After the second tankful, gasoline containing TCP will produce the full effects of increased power and mileage and insure reliability of spark plug performance. If its use is continued, the benefits will be continued. Researchers for major automobile manufacturers arrived at the same findings.

Only two problems remained. First: to prepare the new additive in sufficient quantities to supply Shell dealers throughout the United States and Canada. Second: to provide equipment for injecting the additive into huge quantities of Shell Premium Gasoline, and to assure supply at all market points.

These problems have both been solved for Torrance motorists. Shell Premium Gasoline with TCP added is now available at Dave Figueredo's Shell Gas Station, located at the corner of Torrance and Crenshaw Blvds. in Torrance.

Chamber Announces Contest for Residents on New Shoppers Guide

A contest to open when the Torrance Shoppers Guide and Business Directory is published here July 1, was announced recently by Robert I. Plomert Jr., president of the Torrance Chamber of Commerce.

Open to all adults, the contestants must complete the sentence: "I use and like the Torrance Shoppers Guide and Business Directory because . . ." in 50 words or less and submit their entries to the Chamber of Commerce, 1345 211th St. A committee of judges including Mayor Mervin M. Schwab, a minister, member of the Board of Education, and one of the judges of the South Bay Municipal Court will select the winning entry, according to Dale Isenberg, executive secretary of the Chamber.

A committee composed of Paul Diamond, Otto Kresse, and Bob Haggard was appointed to form the rules and regulations of the contest and set up the judging committee.

Merchandise certificates worth \$100 and redeemable at any business advertising in the shopper will be awarded the winners. The first prize winner will receive \$50 worth of certificates, the second \$35, and the third \$15, Isenberg said. The contest will close Sept. 1, he announced.

The new shoppers guide will surpass previous editions in nearly all phases, Isenberg said. All the new streets and some dedicated streets in approved tracts to be built in the future

will be included on the up-to-the-minute map in the booklet.

Other information in the booklet, such as statistics on the City of Torrance, will be the latest available. A bonded guarantee of delivery of 25,000 of the booklets will be made, Isenberg said. Application blanks for the contest will be included in each booklet.

El Camino Plans Summer Course in Cosmetology

For the convenience of high school graduates who may wish to begin training in cosmetology at El Camino College, special arrangements have been made to start a class on July 1 just for recent high school graduates. Director of Instruction William H. Harless said that during the summer six weeks of training would be provided, and that regular classes will resume in September.

Rehwoldt to Attend Convention in Miami

Walter Rehwoldt, director of instruction for the Torrance Unified School District, will leave next week for Miami Beach, Fla., where he will represent the district and the Torrance Education Association at the 61st annual meeting of the National Education Association from June 28 to July 3.

While at the convention, Rehwoldt will present a demonstration at two of the sessions prepared by him and staff members of Torrance schools.

The demonstration is a project consisting of colored slides and a tape recording suggesting ways in which parents and teachers can help children to succeed in the beginning stages of reading.

It will be presented at the meeting of the Kindergarten Primary section of the NEA, and at a general session entitled "Promising Instructional Practices." The Association of Childhood Education International has received permission from the Torrance Board of Education to reprint a booklet developed by Rehwoldt entitled "Helping Children Learn to Read," and distribute it to the 3500 delegates attending the convention.

Among the topics to be discussed by panels at the convention are "What does freedom to learn imply?" "How to deal with textbook and curriculum critics." "What are the forces affecting education today," and "Loyalty legislation."

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