# Three-nation tests to probe auto fuel waste

## Three year project planned to study engine condition effect on emissions also

A test program to determine how engine condition relates to fuel economy and emissions has been launched by Champion Spark Plug Company.

Tests will be run in 30 U.S., Canadian and Mexican cities during the next three years.

The new series of tests is the most comprehensive look at motorist maintenance habits and their effect on gasoline consumption and excessive emissions ever undertaken by a non-governmental source.

Data gathered in these cities will be compared to results from earlier studies that have proven helpful in formulating maintenance recommendations. Results also will be made available to the U.S. Environmental Protection Agency and Federal Energy Administration for their use in formulating clean air and fuel economy standards.

To solve the "it's never there when you need it"

problem, here's a list of

items every motorist

should keep in his glove

kit, white cloth to use for

emergency signalling, pa-

A flashlight, first aid

your gloves

compartment.

tive Technical Services Director, "United States test locations were selected primarily because they were per towel, "soap-and-tow-Everything but

el" packets. Also, coins taped inside

car, it's increasingly important to check the alignment of your headlights. As cars get older, they develop sagging springs which can affect aim of

According to David L. Walker, Champion's Automo-

the door for an emergency phone call in case of car If you drive an older

the lights.

listed by the U.S. Environmental Protection Agency as areas with serious air pollution problems. In fact, the EPA recently recommended that these areas introduce mandatory inspection programs for vehicle emissions.'

He continued, "Maintenance neglect that produces gasoline waste also causes excessive emissions. and vice versa."

### Previous tests

Mr. Walker noted that Champion previously conducted nationwide tests on the effects of tune-up on fuel economy and emissions. Those tests showed that an engine in need of tune-up wastes 8.2 per cent of its fuel, equal to between one and two gallons of gasoline per tankful based on a 20-gallon tank capacity. An estimated 300,000 barrels of fuel costing motorists than \$2 billion a year, are being wasted through engine neglect.

Emissions tests conducted by Champion revealed nearly a 50 per cent reduction in harmful pollutants at hot idle after tune-up.

### Some of the causes

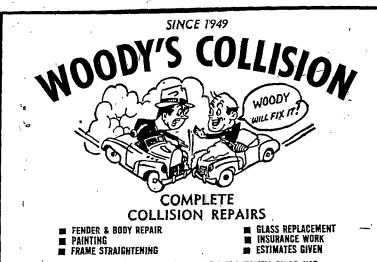
Conditions causing fuel waste and excess carbon monoxide emissions include faulty carburetor, sticking choke, wrong idle setting, dirty air cleaner and related problems.

Common causes of high hydrocarbon emissions and poor gas mileage include a weak ignition system, worn out or fouled spark plugs, improper timing, malfunctioning distributor components, worn or damaged wiring or poor compression.

All these conditions other than poor compression due to engine wear are correctable by tune-up.

Mr. Walker said, "Champion is undertaking this new, more extensive test program for several reasons. With the serious energy crisis confronting our nation, we need all the information we can gather on how maintenance helps

would be counterproductive if the car manufacturers improved fuel economy only to have their efforts offset through motorists' neglect of car maintenance..



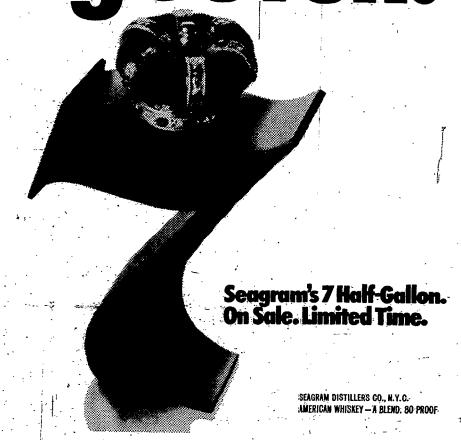
MEMBER OF AUTO BODY CRAFTSMEN GUILD INC 225-3733

2500 RIDGE RD WEST (OPPOSITE GREECE TOWN HALL)

Send \$3.95



# ig Savings on the



# **OVER** <sup>\$</sup>200,000 **INVENTORY** All Makes & Models Will Be On Sale WE'MUST REDUCE

| AAT MOOI HEDOOF  |                    |
|--|--------------------|
| '73 Vega   | <sup>\$</sup> 1495 |
| Hatchback, 40,000 miles, stereo  | 1490               |
| '71 Olds 98  | STEAT              |
| Green, 4 door, hardtop, factory air, full power, low mileage                         | <sup>\$</sup> 1595 |
| 73 Dart "Swinger", 2 dr., hdtop, auto. trans., power, vinyl top, Silver mist w/black | \$2495             |
| 73 Gold Duster   |                    |
| Yellow, Automatic transmission, power, vinyl top                                     | <sup>\$</sup> 2495 |
| 75 Olds 98   | _                  |
| Regency, Triple black, air, power, stereo, cruise                                    | *5895              |
| '68 Buick  | SOOF               |
| Skylark, 4 door, auto. trans., power, 28,000 miles. Excellent. V-8                   | <sup>\$</sup> 995  |
| <b>'69 Malibu</b>  | 3005               |
| 2 door, auto. trans., power, vinyl top, good cond., 6 cylinder                       | <sup>\$</sup> 1095 |
| '65 Cadillac   | . \$405            |
| 4 door, full power, no rust, excellent runner!                                       | *495               |
| (mmmmmmm)  |                    |
| \$ 12,000 Mile \$  |                    |
| 12 Month   | •                  |

Warranty Available

'71 Rivera \$1795 Factory air, full power, excellent. Vinyl top 73 Pontiac \$1895 Catalina, 2 door, full power, real clean, good mileage '74 Vega \$2395 Hatchback, Maroon, radio, 12,000 mi., bucket seats, rad. tires, fir. shift '73 Cutlass \$2495 Choice of 4, 2 doors and 4 doors. From '73 Olds 98 \$2895 4 door, air, full power, extra clear '71 Olds 88 \$1195

320 EAST AVE. **OLDSMOBILE**