

TEMPLAR MAKES A RECORD

Averaging 23 miles per gallon of gasoline and 1,244 miles per gallon of oil, the Templar, with its Templar top valve motor, again demonstrated its economy in the recent Camp Curry-Yosemite Valley Economy Run out of Los Angeles.

This annual event is regarded as the most grueling trial held on the Pacific Coast. The course which totals 374.8 miles, leads over hazardous mountain roads and up steep grades. An altitude of 6,000 feet is attained before the goal, at the top of one of the Sierra peaks, is reached. Because of the stiff grades and sharp turns the course demands an abundance of reserve power in the competing cars and the most skillful driving. The recent contest was made more difficult and hazardous because of the fact that 100 miles of the route had been visited by a cloud burst just prior to the start of the race.

The Templar with its load, weighed 2,570 pounds. It consumed 12.4 gallons of gasoline in covering the 374 miles, giving it an average ten mile mileage of 41.

Harry W. Anderson, general sales manager of the Templar Motor Corporation, regards the performance of the Templar as the more remarkable by reason of the fact that the driver was comparatively a stranger to the car and was wholly unfamiliar with the course.

"We are more than elated with the achievement of the Templar in the Camp Curry-Yosemite Valley Run, although we might add that it only disclosed what every Templar owner already knows," he declared. "If a car will average 23 miles per gallon over such a road as was used in the Camp Curry Run, it certainly should average much more on the smooth highways. In fact reports from all parts of the country confirm this economy record in every day driving."

COAST TO COAST TOUR TO MAP AERIAL ROUTES

Inspired by the success that attended the transcontinental motor transport tour, another cross country trip started

from Hazelhurst field, Minnola, L. I., last Wednesday under direction of the War Department, consisting of nine airplanes, twenty-four motor trucks, three staff observation cars, four touring automobiles, motorcycles, engines, corps and research chassis and outfit. According to War Department officials this will be the most extensive, spectacular and instructive pathfinding tour ever made in the United States. It will be known as the All-American Pathfinders and is being conducted for the following purposes:

Recruiting for every branch of the military service.
Outfitting and establishing of aerial highways for use in carrying government loads over definitely plotted and mapped routes.
Selection, location and establishing of landing fields along these aerial highways.

Obtaining, cataloguing and recording of the detailed military information in the air service.

Recommending sites for steel hangars at certain points along aerial routes to the government at Class I landing fields, supplied by municipalities.

Photographing and plotting from the air of all these municipal landing fields along the aerial routes.

Observing and testing of aerial radio telephones and the compiling of data with reference to the advantages of establishing radio stations along aerial routes.

The final making of continuous accurate photographic maps of these aerial routes from the beginning to the terminus of the route to be traversed.

First Combination Tour.

The entire aerial expedition will consist of Curtiss biplanes equipped with special high-powered motors for pathfinding and research work. It is planned to have six of the machines fly from base to base, the others being transported by a complete motor truck convoy consisting of fourteen one and one-half ton trucks, five standard Liberty five-ton trucks, passenger touring cars, motorcycles, etc.

This is the first time in the history of transcontinental touring that airplanes have been linked together with trucks and passenger cars. In view of the fact that the last two named have become accepted facts in our long distance touring which involves endurance, speed, etc., is concerned, an extensive educational campaign will be carried on with special reference to the development of aviation for commercial uses.

The motor transport section will maintain, operate and control the movements of the expedition, which will travel on a definitely planned schedule, as to mileage and motor performance.

Will Visit 171 Cities.

When in motion the convoy stretches out over a distance of one-half a mile, leading off with the passenger observation cars and motorcycles, followed by the trucks, carrying necessary equipment for the maintenance of the machines. The expedition will be self-contained, carrying all its own tenting, mess outfit, etc.

Chicago is included among the 171 cities at which the caravan plans to stop. The airplanes will fly directly from Minnola to Columbus, O., laying over at that point until the arrival of the road transport to Chicago.

Major W. M. Baldwin, who has had a wide experience in air service and other military functions of this type, is in command of the expedition, which will consist of twenty-three officers and eighty enlisted men.

HOW TO DETECT LEAKY VALVES

Timely Advice Given Car
Car Owners for Locating
Cause of Bad Valves.

It is just as important to know when not to grind a valve as to know when grinding is necessary. In the sound advice given by Arnold P. Yarbuck in an article on "Valve Inspection and Grinding" in the August Motor. It is quite well known by many motorists that not all engines run better after the valves have been ground, a fact which is attributed to

the unnecessary grinding which makes for leaky valves. The writer in his article points out how one may distinguish a valve that leaks from one that does not and tells how only the faulty ones should be ground in. He says: "On a properly cooled engine and one where the valves are properly timed, it may be accepted as a general rule that valves which are evenly scored over and, therefore, have perfectly black heads, are holding, while those which are red or brownish on top, or show the metal plainly, without a covering of soot or carbon, are leaking. By observing the tops of the valve heads as soon as the cylinder head is removed and then carefully inspecting the face of the valve and the seat, one will quickly learn to tell what is needed."

LEAKS CAUSE DAMAGE
"The reason for the difference in

the looks of the tops is simple and obvious upon a little thought. During the power stroke of the piston the burning gases are under a high pressure. If there is the slightest leak at any point around the face of the valve, the gases will force their way through at terrific speed and carry away any carbon which may have been formed on the top of the valve near the leak, as well as on the casting near the valve seat leaving the metal around the leak entirely clear of the soot or carbon. Not only will the escaping gas carry away all carbon near the leak, but will also actually wear away the metal itself if not attended to.

"A valve which is allowed to leak for a long time will frequently show quite a path eroded by the hot gases in pushing through the opening, in much the same way as the gases from the burning powder charges in a

high-power rifle or cannon gradually erode the metal of the rifle or cannon barrel by escaping past the projectile before it gets fully under way. The paths cut by those leaks in either case look almost as though the metal had been melted out and there is undoubtedly a certain amount of melting of the metal brought about by the hot gases.

"The high temperature of the escaping gases also causes a different

color of the metal around a leaky valve in many cases. Very frequently a leaky valve will have a reddish appearance, like burned clay or like a furnace grate often shows after being under a very hot fire for some time. This is not an infallible rule for detecting a leaky valve, but on many engines it is a very reliable indication."

Are you reading The Times?

WANT ADS
POINTS THE WAY TO BETTER
POSITIONS-TO BETTER WORKERS
READ THE HELP WANTED AND
SITUATION WANTED
COLUMNS FOR RESULTS

CALL

Hammond 368
or Res. Phone 2269
for our

Service Car

Emergency work our
great specialty. We go
anywhere, day or night.
When in trouble call
above numbers.

Best Work

—and most reasonable
prices our policy. We
repair any make car and
replace any parts.

Used Cars

—bought and sold. You
will do well to see us if
you want to sell your
car, or buy a used one.

Tires

—and accessories. In
fact, an up-to-date garage
established to fill
the wants of the automobile public.

O. K.

Garage

822 Columbia Avenue
HAMMOND, IND.

Experts on Ignition Starting and Lighting System
—For Ignition Trouble Phone 2343—

The Auto Electric Equipment Co.

We carry a
full line of
ignition
parts for
Bosch
Eisemann
Delco
Remy
Atwater-
Kent
Connecticut
Gray &
Davis

Has Changed Hands to
The Quint Bros.

**We Rewire All
Makes of Cars**

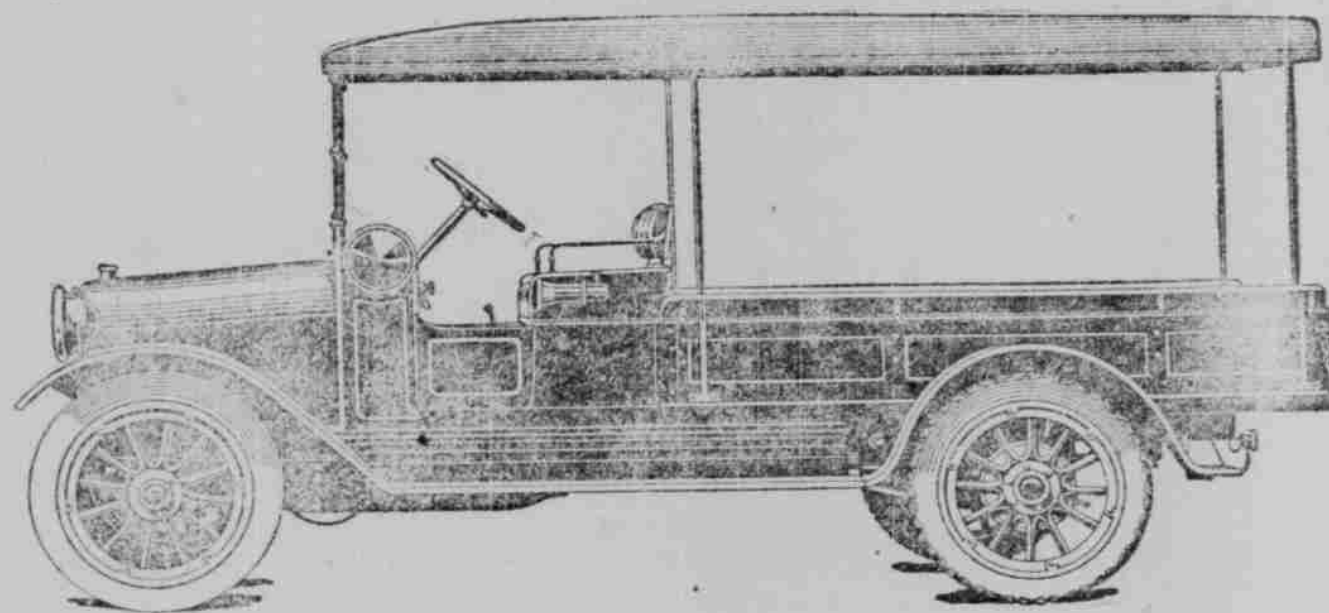
We repair all
makes of
magneto
starters and
generators.
All work
guaranteed.
Give us a
trial.

Repair Starting and Lighting Systems

The Auto Electric Equipment Co.

701 South Hohman Street, HAMMOND, IND.

A Full Line of Automobile Brushes



SPEED IS ECONOMY

WE USED TO THINK that big units in loads spelled economy.

BUT WE HAVE FOUND differently. We know that the Motor Truck that delivers each load in the shortest space of time is the most economical in the long run.

IN EIGHTY PER CENT OF CASES the commodity to be transported averages less than a ton in weight.

THAT BEING TRUE, it stands to reason that the cheapest way is to deliver each load separately, instead of carrying several tons over the first part of a long route in order to deliver fractions of the load to various points.

THIS REO "SPEED WAGON"—the pioneer and still the leader of its type—has revolutionized our ideas on hauling.

IT HAS DONE MORE—it has revolutionized design in motor trucks by proving that speed is the greatest factor in achieving economy.

MOUNTED ON PNEUMATICS it is capable of any speed the law allows—and with full load.

ELECTRICALLY STARTED it conserves the time, as well as the energy of both driver and truck.

ELECTRIC LIGHTS permit speed with safety at night.

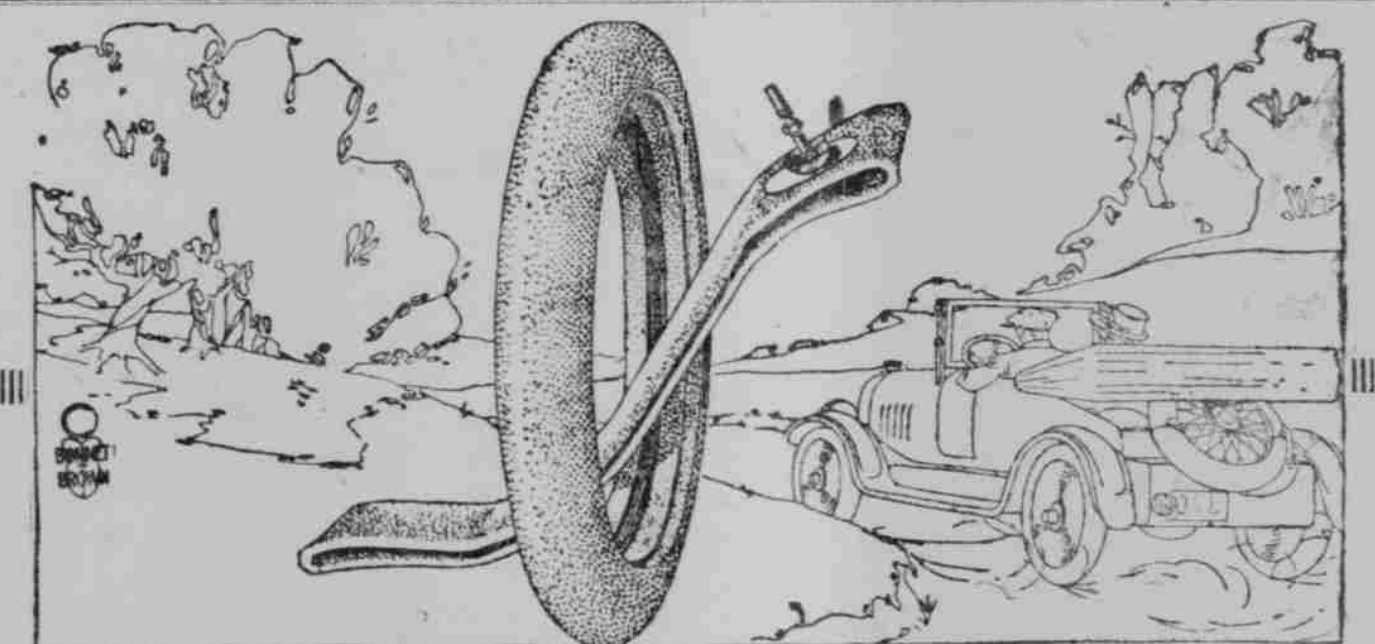
THESE THREE FEATURES first incorporated in a motor truck by REO, have changed all standards of hauling, have speeded up business in a thousand lines and made this Reo "Speed Wagon" known as the world's most efficient, most economical and most dependable motor truck ever built.

Hammond Motor Car Co.

97 E. State St.

A. F. Adelspsenger, prop.

Tel. 2543 HAMMOND, IND.



Big Special Sale of "TITAN" Tires For Saturday and All Next Week

TITAN Non-Skid Automobile Tires are sold on a 4,000-Mile basis. A written guarantee bond with each tire. Just note the difference in our price and the list price—

30x3 —List \$18.50; Our price \$12.95
30x3½—List \$22.95; Our price \$14.95
32x3½—List \$26.85; Our price \$19.50
31x4 —List \$35.80; Our price \$25.75
32x4 —List \$36.55; Our price \$25.95
33x4 —List \$38.90; Our price \$26.95
34x4 —List \$39.20; Our price \$27.50

Lion Store
KAUFMANN & WOLF - HAMMOND, IND.