



Exhaust Echoes



MOTOR SETS RECORD FOR HAYNES PEOPLE

Pleasure Car Engine Puts Up Two New Marks for Amateurs at Chicago Classic—Ford Driving.

MADE 89 MILES AN HOUR

Motor Was Taken From Branch Manager's Car for the Race.

The Haynes "light twelve," which set the new amateur record for 100 miles at the Chicago auto derby Saturday, June 16, and made a new non-stop record, had under its hood the engine which H. E. Doty, Chicago branch manager for the Haynes, has been using in his pleasure car the past winter.

Mr. Doty never expected his engine to win such signal fame. It has the regular stock valves and stock displacement. He had driven it over 3,000 miles for personal pleasure. Not having time, prior to the race, to limber up the engine sent from the factory, it was at the last moment decided to use Mr. Doty's stock engine instead.

A Hard Won Victory.

Percy Ford, Jr., an amateur driver and salesman at the Chicago branch, lined up against an array of special \$4,000 racing cars. Fender against fender the Haynes light twelve and another contestant battled for nearly forty of the two-mile rounds each fiercely fighting for leadership and averaging ninety miles per hour.

Thereafter the lead was securely in the grasp of the Haynes. Without one stop for adjustment or tires, the Haynes completed the century at an average of eighty-nine miles per hour, the new record for amateurs. Ford says he always had plenty of power in reserve and that if he had been pushed harder he would have maintained an even greater speed.

Despite this terrific tax upon his engine, following the capture of the trophy cup offered to the winner, Ford found his twelve-cylinder power plant in even better shape than before the race and drove home in his racer.

A "Quarter Century" Engine.

That a stock twelve-cylinder engine could be taken from a pleasure car, hurriedly fitted into a racing chassis and emerge triumphant from a hotly contested 100-mile race without even a suggestion of mechanical trouble during the grind or afterward speaks well for the engines which the Haynes people build. The Haynes engines have always been built by the Haynes factory and the twelve thus results from approximately a quarter century of engine manufacturing success.

Ford, the same driver, a year ago attained a seventy-two mile per hour gait in a Haynes light six on the same speedway. A special gear ratio was used.

RUBBER COMPOUNDER IS RIVAL OF BREADMAKERS

"The compounding of rubber is a good deal like mixing dough for bread," according to President Feist of the National Rubber Company. "It is surprising what different results people can get from the same ingredients. One breadmaker will get a delicious, light, flaky, crusty loaf, while another will get a heavy, soggy, close-grained bread. One is so good you can't get enough of it, while the other is scarcely fit to eat. It is so with tire rubber. One man will compound a rubber that will wear like iron, another a rubber that has no wearing ability at all." Accordingly the company secured James E. Murray for its compounder on speedway tires, a man of vast experience, and who was given absolute freedom in manufacturing. He changed everything, at big expense, to get results, and, as Mr. Feist said, the company decided that sooner than sacrifice any of the quality Mr. Murray was putting into them, it would open its own factory branch stores and by eliminating the profits and selling costs of the middlemen, it could sell them at the average list price or even a little less.

U. S. EXPERTS MOTORIZE FIRST ARTILLERY UNIT

Engineers Accomplish Big Problem of Modern Warfare.

What is believed to be the first complete unit of horseless artillery in the world has been created through the development of a full motorized field battery of medium caliber guns by the United States. Both European and American engineers worked on the problem of eliminating the horse entirely from the work of dragging such guns to the front for years before the outbreak of the great war. Successful experiments by the government now seem to promise an early substitution of the machine for the horse in handling nearly all forms of ordnance.

Experiments were first made with various types of tractors under the direction of the field artillery board at Fort Sill, Oklahoma, and by the ordnance department of the army at the Rock Island arsenal, followed later at Fort Bliss, Texas, with a completely equipped battery. The tractor standards committee of the Society of Automobile Engineers has been actively co-operating in the study of the problem since the outbreak of the war.

The large howitzer types are sure to be motored, according to Major Lucian B. Moody, who has been in charge of the work. The French 75s and other light types will have to wait for the development of tractors capable of developing a combination of speed for emergencies and pulling power in mud equal to that of horses.

European armies have reduced greatly the number of horses in artillery use. It has not proved possible to eliminate them in hauling certain of the smaller and medium types of ordnance because of the lack of proper tractor combination of speed and power.

Attention.

Speeder—A mental defective; a person who imperils the lives of others, and is a potential murderer. —Sheriff Traeger.

CAMPBELL FLIES OVER THE GERMAN TRENCHES

Kenilworth Boy Is Shelled by Teutons During First Flight.

A Courtney Campbell, Jr., the son of A. Courtney Campbell of Kenilworth road, is having a very interesting career in France as an aviator in the war zone. The young man went to France a short time ago to drive an ambulance, but having always been extremely interested in aviation, soon took up training for the air squadron at Buc. At first he took part in operations in the Vosges, and was engaged in piloting a machine for photographic work. Since then, however, he has been transferred to the Lafayette escadrille.

The following is an account of one of his trips, taken from a recent letter to his family:

"The captain asked me if I wanted to see the lines today, and so I took my 'Bebe' and went with two others in monoplane fighting planes and a Caudron which was taking pictures. The three Nieuports were the guards of the Caudron. We went two kilometers into Germany near — at about 1,600 meters, and they shelled us all the way. They are wonderful shots and I was scared until I saw how calmly the others took it. I find the training I have had gives me great advantage, as I had the machines always under control, even though it was necessary to dodge like a jacksnipe to keep them from getting the range. It was my first and last experience at that height over the lines, as I will work at from 4,000 to 6,000 meters, where they can't shell me."

One Less Toll Road.

The Pennsylvania state highway department has taken over by purchase that section of the Lincoln highway extending from the Philadelphia city line to Paoli, a distance of fifteen miles. The change will become effective and tolls abolished beginning the first of July. Up to this time the road has been a toll road controlled by a private company. The purchase price is understood to be \$165,000.

OFFICIAL INSIGNIA FOR WOMEN SIGNING PLEDGE

Members of Food Conservation Army to Have Shields.

The manner in which 10,000,000 women of the United States are to be enrolled to help win the war was explained by Dr. R. L. Wilbur, head of the food conservation department of the temporary food administration.

Women who desire to "do their bit" will be enrolled for war service the same as men. They will receive an official insignia of their branch of the service. They will be told exactly what is to be required of them. They will not be expected to stir from their homes to do their part in helping to win the war, but the part they play will be as vital as that of the soldiers in the trenches of France.

Beginning next Sunday, which is to be food conservation Sunday all over the United States, an active campaign will be undertaken to enlist women for conservation work. Forms and suggestions have been sent to every woman who enrolls for the work, telling exactly what is to be expected in the way of conservation of food.

'Ware the Garageman.

Your garageman may seize your car now in Illinois if you don't pay your bills. This became a law last week when Gov. Lowden signed a bill giving garage owners right of lien on automobiles.

SPEED LIMIT PLACED AT EIGHT MILES IN PEKING

At Peking the metropolitan police office has issued a public notice regulating the speed of motor cars traveling in the district of the city. It fixes the limit for one minute at 600 builder's feet, and for one hour at 22 Chinese li, or a little less than eight miles. This action has been taken as the result of the request of the administrative commission of the diplomatic quarter that Chinese officials should be notified that the speed of their motor cars in passing through the legation quarter streets shall not exceed eight miles.

VILLAGE COUNCIL PUTS BAN ON JULY CRACKERS

Provisions of Winnetka Code Prohibits All Explosives.

"The President of the Village of Winnetka and the Village Council wish to call attention to the provisions of the Village Code which prohibits the discharge within the limits of the Village of Winnetka of any rocket, cracker, torpedo, squib or other fireworks, or anything containing a substance of an explosive nature. Penalty for violation of the provision of this Chapter is a fine of not less than \$10 or more than \$100." —Adv.

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PLACING CONFIDENCE IN WEIHE OF WILMETTE

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