Expert Tells How Automobile Fuel May Be Saved.

NEEDLE VALVE IS IMPORTANT

Gasoline-Carbureter Has a Great Deal to Do with Consumption.

"Economical operation with a six-cylinfor car, or in fact any car, may be said on one gallon of gasoline is the average over a fairly long period in the use of facturing company. "Gasoline economy is but one of the

many economies that can and should be worked for on a car. It is possible but very seldom obtained by the average man, no matter what car he owns. This merely indicates that he has not the knowledge of the different things that go to make up economical use of gasoline. "In general, if one understood the combustion of fuel in the cylinder, he would have all that is necessary to understand conomical operation. He should know that a certain amount of fuel, and this will practically in every case be gasoline, requires air mixed with it in order to have it burn and thus produce power. It is necessary that it should have the correct amount of air, although a little excess of air does very little harm. It is necessary in order to have economical

Driving Important.

"How a man should drive is important. If the operator holds out his clutch when going down a hill, and allows the engine run under its own power, he is needclutch when he is slowing up the car, instead of closing the throttle, he is needlessly using gasoline. In fact every time

portance of the needle valve. In all ases, this valve should be adjusted to AN INTERESTING MOTOR minimum possible and still have good operation. Adjusting this needle valve to the minimum really means getting the right proportion of gasoline and valve under several different adjust- an interesting little fact was brought to ments when starting up, and until the light in the garage of the local Midland engine is well warmed up. In the win- Motor company's representative yesterter time the valve may be opened up day. twice its regular opening in order to get good operation when everything

"Another big source of gasoline loss sition.

ECONOMY IN THE USE OF GAS is in small leaks. Very frequently the leak just a drop now and then, but masmuch as this drop is going on for 24 hours a day, it amounts to a great deal. For this reason all such places should be examined at regular intervals to note their condition

'Naturally the carbuetor has a good deal to do with the gasoline consumption, but with a standard carburetor there is not a great deal of difference in its for the use of the deputy fire chiefs of the use of gasoline, But there are quite a few city. The Cadillac Motor Car company things about a carburetor that can produce economical operation, such as leaks in the float or air leaks around the carburetor, and for that reason it is very destrable to give this part enough atto be attained when about fourteen miles destrable to give this part enough attorned type and are to be painted fire red. in good operating condition.

Touring in the country gives the best that car," says Arthur Holmes, chief possible chance for economical operarigineer of the H. H. Franklin Manu- tion, as it allows the motor to be used at a more economical point in its power At the same time, driving at high speed in the country does not give economicaoperation as far as gasoline is converned, because the wind resistance increases companies have cars already in official so fast that the amount of gasoline used in covering any particular mileage is very much greater than if that same mileage was covered at a slower speed Probably 20 miles per hour represents GOOD CARS NOT RAVENOUS the best speed for economical opera-

TROUBLE AUTO TRUCK HURRIES TO THE RESCUE

Detroit pedestrians who have inadvertently wandered along the populat- plicity of operation. But one of the ed streets instead of keeping to the most important results attained in this operation that each cylinder have a chr. safer suburban districts, have recently steady march to perfection is reduction rect mixture, and this problem is one discovered that the art of tree climb- in cost of maintenance. In the earl of distribution. If a perfect mixture ing is handy thing to have around days of the industry there was an impres were made in the carburetor, distribu- the house. For ever and again they sion prevailing that the pleasure car for would be easy, but in general today have been startled out of their philt- was a luxury that few could afford beis a mechanical mixture of gasoline sophical reveries by a sudden and cause, for one reason, an automobile and air, and the correct distribution of noisy apparition that has approached consumed an unconscionable quantity with the speed, apparently, of the of gasoline and oil. The situation "Ignition is another feature of gasoline Twentieth Century Limited and all the whether based on fact or not, suggested economy, and ignition should always be indifference of an intoxicated individ- the king with thee elephant on his at a point that would give maximum ual who cares not whether he takes hands, the beast eating him out of house the sidewalk or the street. The apparition in question is noth-

ing more than the latest development this point today because the well made in "trouble wagons" as applied to the car is not a havenous consumer of fuer. equipment of a street railway company its appetite has steadily decreased unand when it rushes by nonchalantly til it is now reasonably proportionate lessly using gasoline. If he holds out the hurdling a curb to take a more casy to the amount of power demanded. riding sidewalk for a block or two, the pedestrian from his safe perch on the WATER KEPT AWAY WHEN lower limb of a handy tree now reatthat the brakes are used on the car and lizes there is something doing down the the throttle not closed, and this can hap- line in the way of a fire, a derailed pen by holding out the clutch and leaving street car, or, mayhap, a serious accithe throttle open, he is wasting gasoline. dent to some unfortunate who has far-The average man does not realize the len beneath the wheel of a heavy car.

EXPERIMENT IN OMAHA

As an instance of the precision with only thoroughly dry material," says C. eir, and today even in warm weather, the which motor car makers are construct- B. Whittelsey, superintendent of the oline is so hard to vaporize that it ing their engines these days, so that is absolutely necessary to use the needla they run with the minimum of vibration,

An ordinary pencil was stood on end on top of the engine of a six-cylinder cold. It is very likely that if the Midland car and the speed of the motor needle valve is not closed down and the increased from 175 revolutions per minute motor warms up, from two to three to over 2,000 revolutions per minute withtimes as much gasoline is used as 10 out causing sufficient vibration to jar or shake the pencil from its upright po-

Eight Automobiles For the Montreal Fire Department

Montreal, Canada, has appropriated funds and awarded a contract for the pur chase of eight high-powered automo was awarded the contract for four of the machines and the Abbott Motor company the contract for the others.

The eight cars for Montreal are to b of the fifty-horsepower artillery roadster trimmed in gold, and are to meet a test requirement providing for a speed of forty-eight miles per hour when fully equipped for duty, and are required to climb the bill through the main thorough fare of the McGill university of Montreal, which is considered a very severe test for an automobile, on high gear. Both service in Montreal and have made preliminary tests to the satisfaction of the

CONSUMERS OF GASOLINE

The rapid development of the motor car in the last few years has brought ments and refinements that have greatly increased the reliability, the simand home

There can be no misapprehenson

TIRES ARE BEING MADE

When water works its way beneath the tread and breaker strip and into the carcass of a tire premature deterioration is certain to follow

"In building up the carcass of a tire out of frictioned fabric, which means heavy cotton cloth impregnated with rubber, we are extremely careful to use United States Tire company's Hartford

Joplin Man Wins Bet.

In a veteran Studebaker car that had been driven more than 60,000 miles, E. D. Hopper made a privately conducted reliability run from his home in Joplin, Mo., to Detroit and is now on his way back. The trip won a big wager for Mr. Hopper, as the car required neither repairs nor adjustments between Joplin and Detroit. Three observers were carried, one of whom was the stakeholder.

of the World

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Announcement

UR friends and patrons are invited to visit our new showroom, located in the heart of the New Automobile District on West Farnam street. We have just received shipments of both Abbott-Detroit and National automobiles and we invite your inspection of these famous cars.

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