

NAY 9, 1919.



to the point that premature ignition occurs as evidenced by the occurrence of the "carbon knock" the deposits must be removed and the removal of the incrustations by hand scraping is altogether the surest method, most authorities agree.

Engines having detachable cylinderheads can be cleaned by scraping with the greatest facility, but those that have not often require expensive disassembling to enable a thorough scraping to be performed. Still by the use of specially adapted scraping tools most engines having valve openings of liberal diameters and cylinder-head plugs can be pretty well cleaned with out their being taken apart.

Oxygen Method.

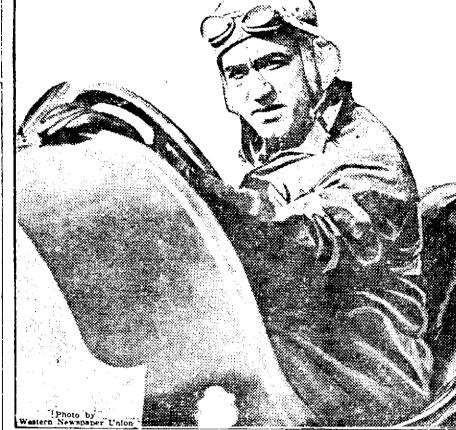
The oxygen method of burning out deposits is applicable to nearly all engines with cast-iron pistons and is fairly thorough in its results. When

lost caste completely, or have been so reduced in number as to lose any hint of significance.

The louvre, nevertheless, is •rather an important factor in keeping the motor temperature at a point that permits the car to operate at its greatjest efficiency. The air that has warmed fn passing over the engine finds its exit to the outer atmosphere through these openings, and in this way opens a path for a constant stream of fresh, cool air above the working parts.

The absence of louvres, or the presence of only a limited number, means a back pressure of warm air on the radiator fap. On the contrary, it follows that the greater the number of louvres the greater will be the velocity of the unwarmed air flowing under the bonnet.

In many parts of the country, unt of physical and mental recreation. But they should not overdo them, "The battery should be to where temperature conditions do not They should not go to it as though everything depended on their putting into a hydrometer at intervals of two require the utmost of cooling systems, attention to this detail of cooling syssuch physical and mental recreation all the energy they possess. tem construction is a matter of little consequence. However, in hot, dry regions, motor cars must travel on the sport. their cooling systems as well as on their fuel tanks, and every item that points the way to a better radiator Soap Berry Tree. system deserves at least a passing no-Youthful Mothers. The jaboncello or soap berry tree Some of the world's notables have tice from the motorist. grows in the humid parts of western ; been born of parents well over thirty Ecuador. It attains a height of about years of age. Conversely great buin fifty feet and has wide-spreading bers of them were born of youthful He Who Toils. branches and immense quantities of mothers. Abraham Lincoln's mother The average man does not love work fruit of the size and shape of cherries. was only twenty-five at the time of or its own sake. This is a truism, The nearly transparent yellowish skinhis birth. Napoleon the Great was and pulp surrounding the round black born of parents twenty-three and nineseeds are so suponaccous as to be teen years of age, respectively. The used instead of seap by many people. mother of Pasteur, undoubtedly the inclination to bodily or mental effort, of Equador, being equivalent to more greatest genius France has yet prois one of the rarest things in the than fifty times their weight of that | duced, was under thirty, as were the world. Cases of it are unquestionably material. mothers of Herbert Spencer, Michael Farraday and John Stuart Mill.



DARIO RESTA, AMERICA'S FOREMOST DRIVER.

Dario Resta's speed mania is confined to the racing tracks. The speed king is a champion in more than one form of sport.

As a racing driver he has stood supreme for years. In 1911-12 he was the started because the gasoline does not the Pacific coast. This letter was not the truck. But we are now figur-International figure skating champion. He is a strong advocate of "sport for vaporize readily in cold weather. Long of the publicity sort, intended to influ- ing on a drum that will be operated sport's sake," and practices what he preaches.

Exercise is Necessary.

In giving his views on sports and athletics in general, Resia says: "To keep the body and mind well, every man and woman needs a certain discharging the battery.

crank because the oil is cold. It must the way of economy may be judged by as you would load log wagons, and also be cranked longer each time it is a letter from a logging concern on it takes us about 30 minutes to load trips are few and the charging periods once buyers, because it was sent by by the engine, and are expecting

No Set Rules Given.

operate vary, and there are so many

starting systems, that no set rules can

battery. If the starter turns the en-

be cranked by hand when starting on

a cold morning. The engine may be

it through the priming cups or by pull-

ing the choker when it is stopped. The

lights should be turned on only when

necessary and in many cases the dim-

mers may be used to save the current."

made to start more easily by priming | ruck.

gine with difficulty, the motor should

cording to E. V. Collins, instructor

in steam and gas engineering in the

lins, "will stand very low temperatures

while a discharged battery will freeze

at 20 degrees above zero. Freezing

will burst jars, and as a result the

Battery in Cold Weather.

"In cold weather the starting bat-

tery is especially likely to become dis-

charged. The engine is difficult to

battery must be rebuilt.

or from an outside source.

"The charged battery," said Mr. Col-

Kansas state agricultural college.

are shorter. The lights which are needed earlier in the evening help in

in employee to an officer of the con- any day blue prints and specieern in making a report on the work fications for the drum that we purof the truck: Get Away From

ONE OF THE MODERN "LAND SCHOONERS."

What the motortruck can accom-["We have been loading our logs on

plish both in matter of hauling and in the truck with skids and ropes, same

pose putting in. We are quoted a probable cost of \$500 for the

oxygen is applied until no further combustion can be obtained in any part of the compression space it is certain that the cleaning is complete.

This process requires no disassembling of the engine and can be performed very cheaply if the owner can obtain the use of the necessary outfit to do the work himself and pay only for the oxygen used. In the use of liquid decarbonizers, no direct indication is given at the time of the effectiveness of the treatment, as is the case with hand scraping and the oxygen method.

In order to be sure that a thorough cleaning has been accomplished a valve cap or two should be removed before the application is made and the thickness of the deposit upon the inside of the cap and on the accessible parts of the valve chambers should be noted.

Engine Not Always Clean. If, after the decarbonizer has been applied, these parts are found to be

clean, it is presumptive evidence that the piston heads and other not readily accessible internal surfaces are also

free of deposits. Unless these precautions are taken it sometimes happens that even though later examinations show the decarbonizer to have had flexuosa, a palm. They also eat its but little effect, the owner being in a fruits, its farinaceous pith. its sacstate of mind to expect the best re- charine juice, and use the fibers of its suits, thinks that his engine is clean leaf stems for making ropes, hamwhen this is not the case. mocks, etc.



Ford cars are more useful today than ever before; a necessity in village, town, city and country: the utility of farmer, merchant, manufacturer, architect, engineer, contractor, salesman, doctor, detgyman; a profitable factor in the life of the nation. Runabout, \$500; Touring Car, \$525; One Ton Truck Chassis, \$550; Coupe, \$650; Sedan, \$775-these prices f. o. b. Detroit. We can get but a limited quantity. Please give us your order at once as first come will get first delivery.

Burkett-Gartner Motor Co. HOME OF THE FORD **Opposite the Post Office**

and a truism rather mildly worded, muses an exchange. And yet we are **C**onvinced that real laziness, real disknown to the medical profession and to the poorhouse authorities, but when

the cause is not bookworm or anaemia, it is usually a too enthusiastic thermometer.

Useful Palm.

In the lowlands of the delta of the Orinoco river the horives build buts suspended between trunks of Mauritia given in the low constries to Elizabeh. doughter of Junes I and the

"My favorite game is golf. I never went in for the strenuous game of charged, it should be charged as soon speed skating. I derived all the exercise I needed from the same branch of as possible either by driving the car

Test of a Good Husband. Our position is simply this: That no

man is a good husband who doesn't j notice when he comes home that the sitting-room curtains have been moved i to the dining-room --- Dallas News, ,

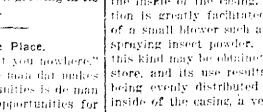
Queen of Hearts.

Mushroom Is Old. The antiquity of the mushroom's establishment in history may be read both in the Bible and the treaties

of the Taboud. The manna that saved the Israelites has been identified as a mushroota of commerce, growing in its The name, Queen of Heartz, was natural wild condition.

Getting Some Place. unformate queen of Bekerder. When "Solf logiss don't git you nowhere. her fortune was at the lowest olde she sold faile Lien. "The man dat makes never lost her digitly of spirit, and do not of its opportunities is de man poverty and distress only rendered her descentions de most opportunities for the more an elder of admiration. Lot<u>ter</u> fe

UNIQUE METHOD OF TESTING AUTO TIRES



MATERIAL FOR WIND SHIELDS "Super-Glass" Made by Welding Layer

tween Glass Sheets.

A material known as "super-glass" ped in making automobile wind shields is made by welding a layer of transparent celluloid between two sheets of plate glass. If struck by a heavy object super-glass will crack but the occupants of the car will not be injured by flying splinters.

WRAP TOOLS IN OILED CLOTH

Prevents Implements From Becoming Rusty When Stowed Away in Tool Compartment,

It is an advirable idea to wrap good ools, such as drills, wrenches, etc., in dlod cloths before slowing them away in the tool compartment. The oiled rioth prevents the implements from becoming rusty, which is quite likely to happen in the course of a strenuous season's running.

Etiquette.

There is an ancient saying that "One should never speak of a rowe to a man A novel method of testing automobile fires, supplyed by a Denver manu- whose father was hanged," and there facturing concern, is shown in the photograph. The track, one-half mile in is a great deal implied in those few circumference, presents every feature of good and had roads. An ingenious words. In effect, is meant that subjects machine, with its lorg arm to which the the is attached, propels the tire of conversation should be carefully in-

"Before we got our truck it took weeks or less. If it is found to be disabout 30 teams to keep our mill

logged, and a short while after we bought our truck we cut our nucles fown to 25 head, keeping a few

WINDSHIELD CLEAR OF SNOW

Alcohol Added to Cleansing Water Will

Aid as Proventive in Keeping

Moisture Away.

earas on the road hauling to the "The conditions under which cars nill and some in the woods bunchng the logs for the truck, but we

drum, and this is something less than a team of mules would cost. Cost of Hauling. "The difference in cost of operat-

ing the drum and what it would cost to feed a pair of mules would pay for a druin in a short while. You can make no comparison of the cost ire gradually getting away from be given for the care of the storage learns altogether. Last week we sold of saving by hauting with truck and S head, and are going to put on anteams, for the difference between the other truck, keeping only enough two will pay for a truck in a short while and the only mistake we think tock to bunch the logs and bring you could make would be in your hem out to a convenient place for the

selection of trucks,"

Chicken Mystery.

Peurl and Stanley, six and four, respectively, had buried a dead chicken te their garden. A week later out of curiosity they went to dig it up, in the wrong place, and did not find it. Excited, they ran together to mother land cried, "Ma, that chicken must have good to heaven, because it isn't there any more."

Wasting Her Time.

"Wher do you think of a man who

would spend his evening with his arm

around the back of a girl's chair?"

"Looks like washing the girl's time, I'd

ing water will aid as a preventive. If the shield and windows in the car do not need cleaning apply a coating of three parts of ploohol and say part glycerin and rub to a polish. This is especially useful in closed cars.

let him spend the evening with the Citizen Want Ads Are Best. chair." Loof Alle Courier-Journal

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of Transparent Celluloid Be-

TALCUM BLOWERS ARE HANDY Frost, dev, snow or rain on the Essential That Chalk Be Thoroughly windshield of an automobile is dan-Distributed Over Inside Casgerous. Alcohol added to the cleansing of Tire. When replacing tire tubes it is es-

sential that tale or French chalk should be thoroughly distributed over the inside of the casing. This operation is greatly facilitated by the useof a small blower such as is used for spraying insect powder. A blower of this kind may be obtained in any drug store, and its use results in the tale being evenly distributed all over the inside of the casing, a very important matter.



around the track. A weight equivalent to that of a heavily loaded automobile [froduced where persons present are] is suspended over the tire in such a way that the tire itself carries the load. not known to a certain extent; that is,

Once started on its journey the tire continues until it has given its maximum that nothing untoward has happened,