Alco-meter Service

is something new in all leading garages and service stations, giving "Maple Leaf" Non-freeze protection.

After you have had a mixture of "Maple Leaf" denatured Alcohol and water in your radiator for a while and you wish to know how strong the mixture is, just stop at any garage or service station displaying the "Maple Leaf" denatured Alcohol sign, and they will test the mixture with an "Alco-Meter" and tell you the exact Freezing Point.

THAT'S "ALCO-METER" SERVICE

Only mixtures of "Maple Leaf" denatured Alcohol and water can be tested in this way. The exact freezing resistance of other mixtures become unknown after a time, and expose your car to the risks of freezing.

A mixture of "Maple Leaf" denatured Alcohol and water gives better satisfaction at less cost.

Correct Winter Driving preparations when "Maple Leaf' denatured Alcohol is used, are as follows:

Empty and flush the radiator and cooling system and see that there are no leaks. Tighten or renew the hose connections.

Put fan and belt in good order

Tighten the gaskets.

and renew belt if necessary.

Do not run car with radiator cover or cardboard in front. Allow a free flow of air to the fan at all times. Then with Maple Leaf Brand denatured Alcohol in your radiator your car is

completely protected,



Kingston Battery Service W. MILNE, PROPRIETOR.

ALL MAKES OF STORAGE BATTERIES, STARTING MO-TORS, GENERATORS AND MAGNETOS REPAIRED OUR PRICE FOR CHARGING BATTERIES 75c.

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Bring your car in, or send for us to call and get it. We will give you a flat rate for overhauling it or repairing it. First class mechanics. Special Compressed Air Oil Sprayer for removing squeeks, and the Greasing Rack, are some of

Service day or night (repairing and washing). **BLUE GARAGES, Limited** Cor. Bagot and Queen Sts. Phone 567.

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Resolves today are just as need- The sweet smiles of some ful as they were the first day of man in public are facking in the should be removed from the surface | condition for the utmost period of so his official inspection. The sam- ing burned at the rate of \$30,000, | It is no small commendation to

How Much Alcohol For The Radiator?

Not Only Supply The Right Proportion At First, But Maintain It FOR THE BENEFIT OF THOSE who have only recently acquired cars and also for those who do not keep in mind or on file data in regard to the proportion of denatured alcohol required to protect the cooling water from freezing at different temperatures, the following table is presented. the figures being taken from the S. A. E. Handbook and the Bureau of Standards. The latter vary considerably from the former. The percentages given represent the proportion of denatured alcohol, the rest of the mixture being water, and the degrees Fahrenheit represent the temperatures at which the various mixtures freeze.

Freezing Points Bureau of Standards S. A. E. Handbook 27 degrees above

protection at the lower temperatures and may be the safer to follow, although it is believed that the S. A. El. table calls for enough alcohol to protect against the development of bursting pressures in the liquid, and it probably specifies enough alcohol to prevent the formation of sufficient floating ice crystals to impede circulation through the radiator passages. In supplying alcohol anti-freeze proceed as follows: Find out the total liquid capacity of the cooling system from the instruction book or dealer or by measuring it. Determine the amount of alcohol required. For instance, if the Bureau of Standards table is to be followed, if the cooling system holds 16 quarts and protection is desired down to 2 degrees below zero 0.40 x 16 = 6.4 quarts of alcohol will be required. Drain and flush out the system with water. Replace all the drain plugs. Pour into the radiator the 61/2 quarts of alcohol and then fill the system completely with water. By supplying alcohol-the lighter liquid-first, it will mix with the water very readily, but complete admixture can be insured in a pump system, by running the engine for a few moments or in a thermosiphon system by running it until a little heat is developed. In most parts of this country, for cars that are indoors overnight, if 30% of alcohol is kept in the water, freezing dangers are slight.

ONE CYLINDER PUMPS OIL | might account for its being over



D. G. C. writes: The spark plug of the fifth cylinder of my engine is wrong? has troubled me for a long time by getting oily and shorting and recently I had new piston rings fitted in this cylinder to remove this trouble, but this has not helped matters at all. What do you think

Answer: Have the walls of this cylinder been recently inspected for scratches and groovings? If such defects exist, piston rings cannot be expected to stop of pumping, as ceive an extra heavy splash this erate the primer.

PRIMER WON'T START ENGINE M. S. writes: I am finding it next to impossible to start my ---- engine these cold mornings. It has no choker on the carburetor airinlet, but there is a primer, which can be turned on from the driver's position, that sucks gasoline from the fuel line and is supposed to spray it into the intake, when the starter turns the engine over. It does not work as it used to. What



Answer:. Perhaps the spraythe oil will follow up the grooves nozzle of this primer has become and pass the rings. It is hardly to clogged with dirt. Maybe the opbe expected that this cylinder bore erating device does not actually is any more out of round than the open the gasoline passage as it apothers, but if it should happen to pears to do, or it may be there is be so, this might account for its an air leak around where the priover oiling, as circular rings cannot | mer is connected into the manifold." fit all around the walls of a cylin- You better take it apart and see der which is considerably oval in that there is no obstruction prebore. If this engine is splash lu-bricated and there is anything failure of the valve to open when about the splash trough or the scoop on the connecting rod of this cylinder that causes its walls to re- will be the suction created to op-

Questions of general interest to the motorist will be answered by Mr. Clough in this column, space permitting. If an immediate answer is desired, enclose self-addressed, stamped envelope.

HOW TO KEEP THE

A Good Polish Is Necessary, as Water Alone Will Not Remove the Soum.

experienced, which came from soft soap is permissible, even necesglimpsing a sparking carriage, sary, for the under parts, but must drawn by a spanking pair of well-, be used very sparingly on the wheels pleasure of seeing wonderfully de- wheel spokes on many cars are signed, luxurious cars roll by, in all deadened by a too free use of soap. the glory of exquisite stream lines! We now come to a matter which in glistening varnish and japan.

looking one hundred per cent. it using polish on a car. calls for as much care as was beods do not lend themselves to obance those of former periods.

in this section, corresponding with to grey the finish in course of time production in other departments, unless followed by a proper dressdoes not admit of allowing the finish | ing. that length of time for "setting"! which was formerly insisted upon, and which was requisite where best results were sought.

Varnishes, it is true, have been adapted, in some measure, to these more rapid methods of treatment. but much "spotting" of new cars is caused by exposing the cars to weather and mud conditions while the finish is "green," or, in other words, before a sufficiently hard skin has formed on the varnish. Hardening of the varnish skin is assisted by flowing cold water over the surface for from three to four hours, and the purchaser of a new car will derive considerable security from doing this before operating the car. It might be pointed out here that a car bought in the fall and its finish allowed to "set" in cool weather, will retain its lustre longer and better than one purchased and immediately run in the heat.

However well conditioned, a finish their use. will suffer from permitting mud and dirt to remain on it for any length of time, due to the action of alkaline | turns grey, and is difficult to remove. salts present in the mud

The sponges and chamois used for separate articles, as me not necesthis purpose should be carefully se- sary or desirable to use a cleaner lected, the sponges chosen must be every time you use a polish. free of sea grit; the chamois soft, Cheese cloth is preferred for polwithout hard fibre. There must be ishing. It should be of the heavier a separate set for the upper and variety, and washed to remove the ower portions of the car. Those dressing. The insides of sugar bags, intended for the upper parts should sometimes offered for this purpose and the state of t for the removal of grit, and, in the woven right into the cloth which case of the chamois, to rid it of ex- will scratch the finish.

by slow flowing water alone. In | time,

taking off the more stubborn dirt by aid of the sponge always keeps a film of water between the sponge FACTORY FINISH and the dirt, otherwis will be badly scratched. and the dirt, otherwise the fivish

Chamois the car dry, and in the process rinse the chamoise in clear water occasionally and wring it.

Never use soap on the highly finished surfaces, whether of varnish or baked japan. The alkali it frees In place of the thrill, now rarely in solution is destructive. A little

has been the subject of much con-To keep these modern vehicles troversy, namely, the advisability of Some people hold with unreason-

stowed upon the coach of other days, ing tenacity to the theory of "water or possibly more, as the later meth- only," seemingly obvious of the fact that waters are extremely variable taining finishes equalling in resist- in chemical contents, and practically all contain sufficient sodium potas-Feverish demand for speeding up | sium, calcium and magnesium salts

Further, a process of exidation is continuously going on in varnish and japan exposed to atmosphere, causing the formation of a grey scum that water is powerless to remove, and which, if allowed to remain on the surface for any length of time, will destroy it.

If these arguments for the use of polish are not convincing, it might be added that practically all automobile manufacturers employ polish.

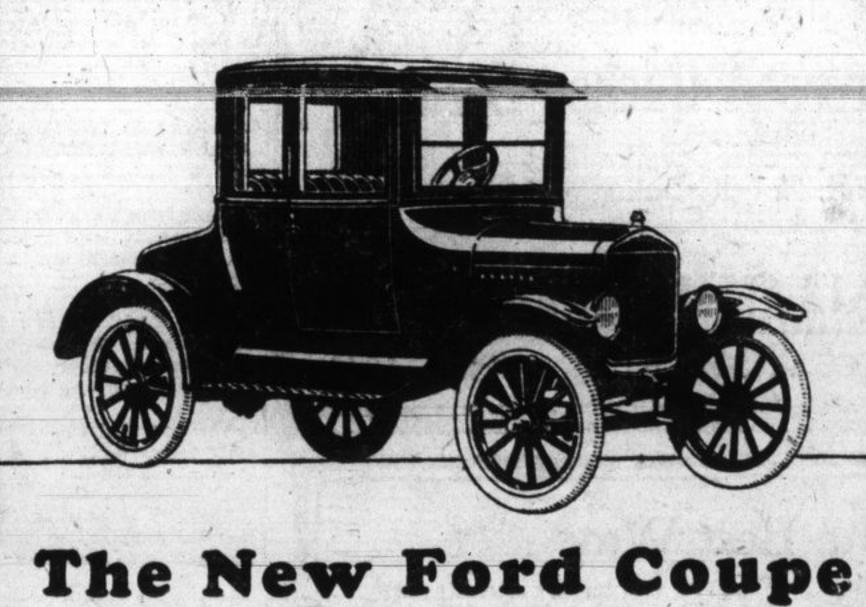
The question really resolves itself into the one of what polishes are fit and which unfit for use. In this article it is possible only to submit a few general points for your guidance in the matter.

Oily and greasy preparations are objectionable. They catch the dust and make the finish flatter than if it had no polish at all, and oil kills varnish just as grease kills a tire. Spirit preparations are dangerous

in the hands of those unskilled in

War accumulates, oxidizes and It gives, at best, a soft gloss which Finish may be, and very frequent- is a poor substitute for the high brilly is, damaged beyond repair by liancy of varnish and baked japan. A polish and cleaner should be

A good polish will hold a finish as As much of the dirt as possible closely as possible to its original one of the state chemists to under- United States, gasoline is now be- is a soul incapable of sadness.



An entirely new body design of remarkable beauty as well as practical utility, is the distinguishing feature of the new Ford Coupe.

The body lines follow in one graceful sweep from the new high radiator to the "Turtle-back" curve of the rear deck, which has been enlarged to conveniently accommodate bulky grips and packages.

Upholstering is luxuriously deep both in the seat and back, the covering being of rich brown broadcloth with mahogany stripe. A recess shelf is provided behind the seat, for parcels.

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As a handsome and practical all-weather car for town or country, the new Ford Coupe cannot be surpassed.

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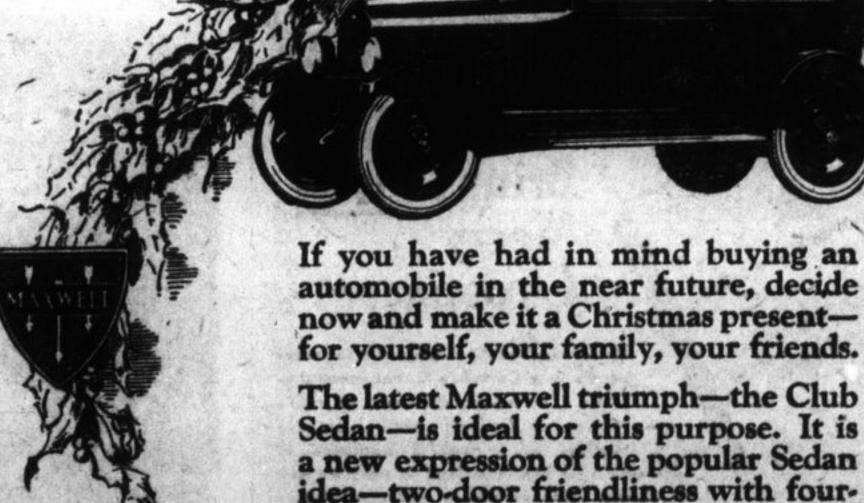
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agreed matrix to good to be really be remission, to given to golf the consumption rate in history. This is

of these barrels a sample is sent to motor vehicles in operation in the The saddest thing under the sky