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T. L. McCullough, Deseronto, has purchased Alex. Foote's boat and will instal a two-cylinder Gray engine in it. Mr. Plato, who lives on Forester's Island, is now the owner of the John Dunlop motor boat.  
Lynn Crossman, Deseronto, received the degree of Bachelor of Science at the convocation of Acadia University, Wolfville, N.S.

## Motor Digest

Carry spare tubes in a bag. Keep spare tires covered. The modern snow tractor is able to do the work of twenty-five men. Harvard created an automobile club twenty years ago. More than half of all the automobiles in Canada are found in rural districts. Fifty per cent. of the vehicles in the United States postal service are automobiles. Seventy per cent. of the passenger traffic in California is transported by motor buses. Each jitney and autobus in Camden, N.J., must be equipped with a cash register. In the city of Stockholm, Sweden, there are 2,135 automobiles and 1,015 motorcycles. During the calendar year 1920, approximately 1,740,000 passenger automobiles were produced in the U. S. country. Approximately one-ninth of all the commercial motor trucks in the United States are operated in New York city. The School Board in Cimarow, Kan., employs teachers as chauffeurs in consolidated schools, paying them 60 cents an hour. The buses run on regular schedule, and the motor routes are so laid out that the buses call at the home of each child. Truancy is impossible. Great Britain is formulating a plan for finding work for 500,000 unemployed men during the coming winter. The scheme provides for the construction of roads in the vicinity of large towns where the highways are urgently required to relieve congested traffic.

## OIL GAUGE QUICKLY SHOWS UP TROUBLE

### Careful Motorist Wastes No Time Heeding Unusual Behavior of Oil Gauge.

Every careful operator glances at the oil-gauge at intervals of a few minutes, while his car is running; it soon becoming second nature for him to do so, and so long as the reading is what experience shows that it should be, there is no occasion for alarm. If, however, the indication is abnormal, it should be a signal for immediate investigation of lubricating conditions. Total failure of pressure indicates that no oil is being pumped, and is a sign that the available oil supply is exhausted or too cold to be fluid; that the pump is air-bound, perhaps because of a cracked suction pipe, or leaky connection on the suction side; or that the pump is mechanically deranged. The fluctuation of the indicated pressure from zero and back, usually indicates that the oil level is so low that the pump obtains an interrupted supply of oil, which soon falls completely. When the pressure runs lower than normal, at all speeds, it may indicate simply that the oil has become thinned by long use and should be changed, or it may point to a partially obstructed strainer or suction pipe, a leaky by-pass valve, imperfect pump operation, caused by dirty check-valves in a plunger-type pump or by a leaky housing or impaired impeller action in one of the rotary type. A sudden drop of pressure practically to zero may also result from the leakage or breaking of a delivery pipe—an accident capable of emptying the system of oil if not attended to immediately. On the other hand, when pressure runs high and this is not accounted for by the oil being fresh and cold, there is reason to suspect that one or more of the delivery passages is obstructed, thus depriving certain bearings of lubrication, but the failure of the relief valve to open may be the cause of the excess pressure. Oil pressure gauges are not infallible and occasionally a zero indication may not mean that there is no pressure in the system, but that the gauge is out of order, or that there is a leak in its connecting tube. If oil is delivered forcibly from the oil pipes, when the engine is run, it is evident that there is pressure, whether the gauge shows it or not.

## CLEAN MOTOR NEEDED TO IDLE SMOOTHLY

### Many Little Troubles Can Be Shown Up When the Motor is Idling.

It is quite a satisfaction to its operator to have an engine idle quietly, regularly and slowly; and the following are some of the conditions that conduce to satisfactory idling. The carburetor should preferably be one with special idling adjustment, capable of insuring sufficiently rich mixture at very low speed. All valves should be tight and the pistons free from serious leakage, or there will be a failure of certain of the cylinders to retain charges capable of being fired reliably. The ignition system must be such as to furnish a good spark at very low speeds, the plugs should preferably be located near the intake valves and their points should not be set too closely together. If there are the slightest air-leaks at the carburetor or intake manifold flanges, or between the intake valve stems and their guides, the small gas charges admitted may be diluted below point of combustibility and some of the cylinders will fire irregularly. If, with the throttle lever fully closed the idling speed is higher than desirable, and the throttle does not shut completely enough, the screw which limits its degree of closing should be adjusted until a low enough speed is secured. Noise, due to worn timing-gears, lost motion in the valve-gear and similar derangements "show up" noticeably when an engine is idling slowly, and if it can be made to run silently at very low speed, with the carburetor in its regular adjustment it goes far to show that it is in pretty good condition and well "tuned up." With present day gasoline, highly satisfactory idling running is hardly to be expected unless the carburetor has a special idling device, and few engines can idle well on a fully advanced spark or until they are well warmed.

## Ready for the Census Man.

The inspector knocked sharply at the door and it soon opened. "How many people live here?" he began. "Nobody lives here," answered the daughter of the house; "we're only staying for a short time." "But how many are here?" "I'm here, Father's gone for a walk and mother is—"

"Stop, stop!" exclaimed the man impatiently. "I want to know how many people slept here last night?" "Well, you see," was the reply, "I had the toothache, dreadful, and my little brother had the stomach ache, and we all took on so much that nobody slept a wink." The inspector said he would call again.

When a young man takes honesty for a partner he belongs to a firm that has the confidence of the public. A divorce suit is usually more expensive than a marriage suit.

## Newest Notes Of Science

A megaphone and fan have been combined in a recent novelty. New Zealand has an annual death-rate of less than 1 per cent. Electricity has been adapted to 48 different purposes about a household. An enamel to glaze pottery without the use of heat is a German invention. Japanese claim to have invented matches that will light perfectly even when wet. High frequency electric apparatus has been invented for massaging and shampooing. Plumbago is the most important mineral product of Ceylon, which has about 1,000 mines. Seats which can be hung on automobile doors to carry additional passengers have been invented. Swiss experimenters have succeeded in obtaining a good quality coke by carbonizing condensed flour. A handcuff has been invented that cannot be accidentally locked, therefore, always is ready for use. Honduras has a tree producing a form of cotton which the natives use in the manufacture of textiles. Seasoning wood brings into the same space about 10 per cent. more fibers than when the wood was green. Sixty miles of thread spun from the fiber of a species of Italian nettle weighs but 2 1-2 pounds. A new gauge for gasoline tanks is fixed in place under a piece of glass, through which its marks can be seen. Across a river in Peru is a bridge more than 200 feet long that is suspended by 32 ropes made of cactus fibers. Two lamps keep the water from freezing in a new watering tank for farm stock, while float valves regulate the supply. According to a British scientist, weight for weight, macaroni is as valuable a flesh building food as beef or mutton. Apparatus which automatically supplies more oxygen to aviators the higher they fly has been invented by a Chicago man. Steam driven engines carried on petroleum propelled motorboats have been added to the Venice fire department equipment. Government experts have estimated that, with due economy, there is timber enough in the United States to last 444 years. Acetylene lamps that throw flashes instead of steady beams of light are being tried out for signalling by a

Swiss railroad. So light is a new rubber coated balloon fabric that three thicknesses of it weigh less than five ounces to the square yard. Tests in Denmark have shown that concrete is not affected by long immersion in the ocean, even as long as half a century.

A new corporation plans to maintain more than 15,000 stands of bees in California and make it the leading honey producing state. For the first time in its long history the Dundee Royal Infirmary in Scotland has women alone as house physicians and surgeons. Turning the handle of an Illinois inventor's double acting churn revolves the paddles in one direction and the barrel in the other.

Some of the natives of Ecuador eat a beetle that is found extensively on high plains of that country after roasting it like a chestnut. A new check protector consists of a printing wheel, fed by ink in the handle to draw lines or designs on each side of the written amount. By linking a number of lakes and rivers in a hydro-electric project Norway expects to obtain 320,000 electric horsepower at a single plant. To protect the sleeves of women office workers a cardboard cuff that is adjusted by buttons around which a string is wound has been patented.

An English shipyard recently launched the first steel vessel built without rivets, all of the plates having been joined by electric welding. A sort of bicycle saddle to be suspended from a pair of crutches has been invented to permit cripples to sit down and rest when they are tired.

Salt beds in Holland estimated to contain 35,000,000 tons, permitted to remain idle ever since their discovery several years ago, at last are to be developed. Operated by electricity, a machine patented by a Buffalo inventor quickly picks the feathers from poultry and gathers them by the vacuum process into a container. For timing work the dial of a Swiss stop watch carries additional marks to indicate at any point of elapsed time what the corresponding output per hour would be.

Tongs held open by a spring to enable an angler to keep mouths of fish open to recover swallowed hooks, scaling and cutting knives are combined in a single implement. So sensitive is electrical apparatus invented by a French scientist that it will detect the presence of one part of bichromate of potash in 200,000,000 parts of water.

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