

# IN THE AUTOMOBILE WORLD

## AUTO REPAIR SHOP

Automobile repairs, reasonable prices.  
Our Motto: First class work and quick service.  
Cars washed, 75c. and \$1.00.

### JONES & MALLEN

Corner of Colborne and Barrie Streets  
Phone 1005J.

## VULCANIZING

Retining, Retreading, Tire Painting, Rust Removed from Rims and Painted; Tire Service, Tires, Tubes and Accessories.

### ANDERSON'S VULCANIZING SHOP

O'RIELLY BROS., PROPS.  
236 Ontario Street

## IS A STEADY INCREASE

In the Number of Power Machines in This District.

The automobile industry continues to show substantial progress in Canada according to the number of licenses issued. In the district of Kingston there has been a steady increase in the number of automobiles, motor trucks and motorcycles. This is due to different causes, such as the growing demand for motor trucks as a means of transportation, the improvement of the highway, city streets and county roads; the reductions in the prices of cars early in the season, and lastly the circulation of money, without which there would be no noticeable increase in the use of the automobile.

Regarded as an index to the prevailing financial condition of the people, the increase in the use of the automobile shows that conditions, while perhaps not active in every line, are really healthy, for a very large amount of liquid capital is represented in outlay involved in the maintenance of cars, the upkeep of the numerous garages, service stations, and places where accessories are sold. The figures available up to June 1st are as follows: Number of licenses issued to June 1st, 1921, 2,262; number of licenses issued to June 1st, 1922, 2,465, subdivided as follows: Pleasure cars, 2,245; motor trucks, 178; motorcycles, 42. The increase over 1921 is 203. Before the end of the calendar year the increase is expected to be much greater.

The increase is very satisfactory considering the business outlook at the beginning of the year.

## Tubers May Be Used To Run Automobiles

The steadily increasing demand for gasoline and the consequent discounting increases in the price of that form of motor fuel may, according to a despatch from Edmonton, result in the wider cultivation of potatoes. The connection is this: From 22 to 25 gallons of alcohol have been successfully produced from a ton of these common tubers and this alcohol may be used as fuel in an internal combustion engine. Fermentation and distillation tests are being made and if the fuel is proved satisfactory for general use it is possible that the potatoes may have more to do with an automobile than acting merely as a windshield wiper.

The development is being attempted as a result of the poor market for potatoes for culinary purposes and the consequent surplus stocks.

## MOTOR NEWS

### Care of Spare Tires.

Spare tires carried on the rear of the car should not be placed near the exhaust pipe. The heat will ruin the rubber composition.

### Something About Taxes.

Automobile tax fees for a medium sized four-cylinder car are as low as \$5 annually in some parts of the United States. The same car in England would call for a tax of \$62; in Spain, \$46; Belgium, \$18; France, \$124, and Italy, \$400.

### Careful Driving.

Drive slowly and cautiously over a rough road, especially where large rocks stick up out of the roadbed. The blows from the rocks not only will ruin the tires, but also may be the cause of a broken spring or broken steering mechanism.

### Keep Spare Fabric Covered.

Two good rules to follow with regard to spare tires are to keep them covered so that they will not be subjected to sunlight, and to use each spare for a day or two every month. Sunlight has a most harmful effect on rubber, whether the weather be hot or cold. Using the spare occasionally lengthens its life for some reason that the scientists have considerable difficulty in explaining.

### Grease in Brake Drums.

When a leaky felt washer permits grease to exude on to the brake drum, the brake on this side will hold less effectively. In some cases, the brake becomes almost useless, but if it grips powerfully the effect of the grease will not be very serious until wet roads are experienced. Then the car will skid. If the oily drum is on the right, application of the brakes will swing the front of the car to the left. The explanation is simple. The wheel with the greasy drum is locked solid while the greasy drum may hardly be retarded at all. The point to remember is that a greasy drum is much more dangerous when the road is wet.

### Care For Universal Joints.

The universal joint is usually one of the most neglected parts of a car. This unit has a tremendous amount of work to perform and unfortunately is situated in the most inaccessible place, a fact which encourages neglect. The high speed of the universal joint also tends to throw out the grease which has been packed in the joint. More frequent fillings of this universal will prevent the rapid wear which otherwise takes place at this point and diminish the back-lash in the drive shaft which results from worn universals.

### Spark Plugs.

Every time a spark plug is removed for cleaning a little graphite should be spread on the thread. This will permit the plugs to be set down to their limit without danger of destroying the threads and at the same time the graphite will help prevent leakage of the gas under compression. The plugs will be easily removed next time.

### Valve Stem Lubrication.

As a general thing, the valve stems need no lubrication. If they stick because of carbon deposits they may be cleaned by injecting kerosene into the air valve of the carburetor while the engine is running. Some of the kerosene will pass down the valve stem and soften and wash off the carbon. A mixture of one-half kerosene and one-half lubricating oil may be squirted on the valve stems.

### Another Method.

It has been suggested as a means of solving the stolen motor car question that the original purchaser's name be stamped in various parts of the car, such as the frame, body, etc., of course being hidden from immediate view. If the car is sold to another person the second name could be stamped beneath that of the original owner and the date of sale placed alongside. This could be continued as often as the car is sold.

### Follow Golden Rule.

Lack of courtesy and a failure to recognize the reasonable rights of users of highways have frequently been cited as faults of many owners and operators of motor vehicles.

### Oiling the Clutch.

A leather-faced cone clutch, when treated with Neat's foot oil, should

be depressed all night, so that the oil will have an opportunity to soak into the facing. The clutch can be released by sawing a block of wood of proper length and fitting this between the pedal and the base of the seat.

### Vibration and Loose Nut.

If a nut or bolt is found in the drip pan when working around the engine it has probably worked loose and it is wise to try to locate where it belongs. This is a further indication

that screws, bolts and nuts should be tightened elsewhere around the car.

Nearly 115,000 persons are engaged in road building work in the United States.

# Ford

Touring  
\$535

F. O. B.  
Ford, Ontario



## A Willing Partner

Who adds to your business prestige—  
and never questions your business judgment.  
Who submits to neglect without complaint.  
and never harbors a grudge.  
Who puts up with your whims—  
and never speaks disparagingly behind your back.  
Who is on the job morning, noon and night — and never  
asks for a day off just when needed most.

THE FORD CAR

Buy your Ford Car NOW.

## VanLuvén's Garage

Princess Street



# on time

How many times would you have missed your boat if you had had to stop on the way to change tires? As you sit by the rail as the steamer pulls away, you suddenly note a wild-eyed, dishevelled, human being tear his way through the crowd and rush to the dock's edge—too late. The poor man had to fix a tire on the way to the boat. "On time" is the record of the business man who trusts his schedule to the unflinching dependability of "Gutta Percha" Tires.

PRICE: The cost of a tire is what you spend in repairs, in lost time and mileage shortage, added to the first price. "Gutta Percha" Tires are high grade "standard" tires and the mileage they render makes them the cheapest tire to buy.

# "GUTTA PERCHA" TIRES

"Quality all Through"



## Some of the attractive features of a Briscoe Light-Weight Touring Car

which we are now offering:—

1. A strongly built Car with seven inch frame.
2. A quiet-running motor.
3. Low Gas consumption.
4. Non glare lens.
5. Smart pleasing body lines.
6. Easy riding and comfort due to long springs.
7. A price several hundred dollars below its actual value in the automobile market.

## ANGLIN BROS.

Bay Street, Kingston, Ont.

## Absolute Evidence in Favor of Ground Cylinders

All high grade automobile engines manufactured in this country as well as in Europe have their cylinder bores finished by grinding. Some of the American cars that might be mentioned are:

|            |             |                |
|------------|-------------|----------------|
| Apperson   | Hudson      | Peerless       |
| Brewster   | Kissel      | Pierce Arrow   |
| Cadillac   | LaFayette   | Rolls Royce    |
| Cunningham | Lincoln     | Standard       |
| Dorris     | Loocomobile | Stevens Duryea |
| Franklin   | Marmon      | Stutz          |
| Haynes     | Merced      | Templar        |
| Holmes     | Packard     | Winton         |

In fact, 84% of all the manufacturers of pleasure cars use engines with ground cylinder bores, and 91% of the commercial motors are ground. Head Machines are used exclusively.

Automobile owners we have one of these Head Cylinder Grinding Machines, and can guarantee first class work. Ground cylinders is a selling point with many cars.

## Automotive Grinders

R. M. CAMPBELL,  
Corner of Queen and Wellington Streets.

## New Gasoline Service Station

Our new Gasoline Service Station is now open to the public and we are prepared to give real efficient service that will be appreciated. Situated as we are, in the centre of the business district, we are easily reached from all four main roads.

Our Used Car Department has now 18 cars and trucks on the floor, which we can recommend to prospective purchasers, who are in need of a used car of quality.

Our first-class repair department under the personal supervision of Mr. Frank Wafer is now handling all kinds of repairs.

We are now wrecking a Studebaker 6, Maxwell, Chevrolet and a Ford. From this department only the best parts are stocked, and can be bought at greatly reduced prices.

## Palmer's Used Car & Salvage Co., Ltd.

Corner Bagot and Queen Streets

## FACTS TO REMEMBER.

An ounce of attention is worth a pound of overhaul.

An oiling a day keeps the repair man away.

Look before you back.

Spare the oil and spoil the car.

A rolling car gathers no crowd.

A tool in the kit is worth thousands in the garage.

Service is as service does.

Fools rush in where experts fear to ride.

A little knowledge of electrical systems is a dangerous thing.

A skid to the wise is sufficient.

## Warm Weather Deflation For Tires Not Needed

The heat that is noticeable in a tire after it has been run for a few hours is generated by the tire itself, due to flexing and bending of fabric and rubber. The amount of heat depends upon the rapidity and extent of this action. An overloaded or under-inflated tire heats more rapidly than a properly inflated and properly loaded tire. Similarly, an old tire, due to weakness is more susceptible to this heat-producing action than a new tire.

The strength factor built into the standard pneumatic tires of to-day is far above what the tire is ever called upon to deliver, except under most extraordinary circumstances. Experimental tests have shown that in order to blow out a new first-class tire by additional air pressure, it is necessary to exert a force of over thirty times the regular recommended pressure.

Tire experts claim, therefore, that there is absolutely no reason, so far as a blow-out is concerned, for a reduction of air pressure before going out on long runs during hot days. The maximum increase in air pressure that could be expected, under any condition, would not exceed fifteen pounds—the average would not be greater than six pounds. This small increase in pressure will not blow out the casing.

The motorist should not concern himself over making inflation allowances for changes in temperature. The important point to remember is at all times to have enough pressure and that it is very rare that one has too much. Proper air pressure is necessary that full service may be received.

## Friction is Cause Of Much Power Loss

The fact that 25 per cent. of the power of a motor car is lost by friction makes motorists who know this realize how important it is that a motor car should be properly lubricated. Grease cups should be thoroughly cleaned and kept constantly filled with a good grease. It is very important that all bearings and working surfaces be regularly inspected cleaned and lubricated.



THE SUPERIOR GRADE OF 1921 WILL BE YOUR CHOICE FOR 1922

Total number of motor express lines in the United States is estimated at 1,500.

Hard steering may be caused by wheels that are out of line.

when planning a trip of any length, it is a wise motorist that inventories his car and its equipment. Women are said to be more careful in driving than men.