

## AUTOMOBILES, TRUCKS AND TRACTORS

### MOTORCYCLES — BICYCLES — ACCESSORIES

#### OAKLAND SETS SPEED RECORD

Trip from Milwaukee to  
Madison, 80 Miles, Is  
Made in Good Time

Two remarkable speed records have been hung up by the Oakland Motor Car company within the last three weeks, in both of which newspaper automobile editors of Milwaukee took the trip and drove the car at least half of the way.

The latest record was made from Milwaukee to Madison, a distance of 80 miles, in one hour and 32 minutes, or an average of better than 52 miles an hour. The return trip was made at the same time.

#### Record Speed Made

Emil Hokanson, president of the Wisconsin Oakland company and A. R. Bower, one of the newspaper automobile editors of Milwaukee, made the next trip.

Mr. Hokanson had made what seemed to this automobile editor extravagant claims for the latest Oakland model ending with the assertion that he could make the trip from Milwaukee to Madison in one hour and hour and 40 minutes. He was taken up. The trip was made in one hour and 32 minutes. Eight minutes more were consumed for changing the tire. The trip to Madison was started at 8:50 in the morning to obtain a clean roadway, but the return trip was made when traffic was heavier.

#### Traffic Heavy

The other record run was made from Chicago to carry a photograph of a football game at Stagg field to a Milwaukee paper. B. W. Compton, the automobile editor of a Milwaukee paper drove the car from the city limit at Evanston, Ill., to Milwaukee in one hour and 43 minutes. This is a distance of 80.3 miles, and the car averaged 46.78 miles per hour. Mr.

#### RIMS

and Rim Parts for all Cars  
Free Expert Advice  
IRA JORGENSEN  
150 South High Street

Hokanson also made this trip. This run was made from Evanston on a Saturday afternoon, starting at 3:55 p. m., when traffic was heaviest, and the last half of the run was in darkness.

#### Toledo Purchases Many Motorcycles for Police

The city of Toledo has just purchased 32 INDIAN Big Chief 74 motorcycles and 10 side cars for its police department for use in patrol and traffic work. This award was made after a grueling test conducted by Toledo police officials covering speed, acceleration, accessibility and flexibility. Four different manufacturers of this vehicle competed in the test.

#### MAXWELL CONTROL CHALMERS AUTO CO.

Production and Sale of Six  
to Be Continued—Development is Planned

Announcement is made from Detroit that the powerful Maxwell interests are now in full control of the Chalmers Motor Car company, having taken over the physical properties of the Chalmers. The business of the Chalmers company will go on as in the past. In other words, the production and sales of the Chalmers six will be continued. The plans of the new owners of the Chalmers properties are already well matured. They provide for a development of the Chalmers along the same sound lines that have been pursued in the Maxwell business during the last two years.

The purchase of the Chalmers means that it will now get the benefit of the experience, resources and vision of the same organization which has made the Maxwell such a success since the organization took over the Maxwell properties some two years ago.

Distributors and dealers, by wire and mail, have expressed their enthusiasm to the Detroit executives, over the constructive outlook. Plans are for a greatly enlarged Chalmers production

#### OH, FOR THE DAYS OF CHILDHOOD!



And yet they say "There ain't no Santa Claus!"

#### QUESTIONS AND ANSWERS FOR AUTOMOBILE OWNER-DRIVERS

Q. Is it safe, or desirable in a Ford car to use the reverse pedal as a brake?

A. Due to the planetary action of the Ford transmission it is next to impossible to harm it irrespective of what abuse it is subjected to, consequently we advise using the reverse pedal with the brake pedal, using the two alternating, thus preventing burning the transmission bands by allowing oil to accumulate between the band and drum. This applies more to long grades where excessive braking would burn the brake lining.

Q. What would you advise as to the use of naphthalene, or similar patented "gas-saver," in the gasoline?

A. We have found a few so-called "gas-savers" to be mixed with gasoline that have really increased the miles per gallon, but have found the cost of same, equal, if not more than off-set the increased mileage.

Q. What is the remedy for a clutch that "grabs"?

A. We take it for granted that you refer to the old type of cone clutch as used in Overland, Chevrolet and a few others. These clutches have a leather face and are equipped with fingers under the leather to assist in the ease of clutch engagement. These fingers are pressed out against the clutch facing by a spring which in turn is adjusted by a nut on the said finger, loosening this nut allows the fingers by pressure of the spring to raise a portion of the clutch facing, making a partial engagement before the clutch is fully engaged. However, a temporary relief can be obtained by soaking the leather thoroughly with kerosene oil.

Q. What is the best way to straighten fender dents?

A. Take it to J. C. Blair, the fender man.

Q. Is it desirable to use lighter transmission grease in cold weather, and if so, what would be the rule for its selection?

A. If you find it difficult to shift gears while motor and transmission are cold, then it is desirable to change to a lighter grade. The average transmission grease is of about the consistency of steam cylinder oil

during the coming year, and the fullest possible use of the extensive Chalmers manufacturing facilities, which are said to be among the finest in the industry.

or commonly known as 600W. Some manufacturers recommend a heavy grade of gas engine lubricant for their transmission to be used the year around. However, this is an exception more than the rule.

Q. Can a carbonized motor be safely cleaned by shooting water into the carburetor? I have heard of that method but have been afraid to try it. Or is there any successful way of removing carbon without taking down the engine.

A. It has been found that by injecting water in the engine with the fuel that it will prevent the accumulation of carbon to a certain extent. I don't believe, however, that the injection of water will remove any carbon deposits that has already accumulated. There are two well known methods of removing carbon. One by scraping, the other by burning. Burning carbon from a cylinder should be performed by a competent man only, as it is a very precarious operation to perform.

Q. I have an old heavy car that I want to cut down for a bug. How much gas-saving should one expect to make by reducing the weight possibly one-

fourth and the head-on wind resistance by an estimated one-third?

A. This is one of my pet ideas. I don't see why more people do not take advantage of the opportunities offered in the automobile field by buying more old "good" cars and rebuilding them into smaller, smarter, lighter cars, cutting the operating cost to fit your pocketbook, so to say.

It will surprise you what can be done in the line of remodeling or rebuilding, in the way of increased mileage on both gas and tires and the reduced head-on presented by the decreased size and shape is a big factor when we remember that the resistance increases with the square of the velocity.

There is no limit to the class we can build into these cars, providing, of course, our pocketbook holds out, and why we cannot build a smart classy two or three passenger roadster at a nominal figure, to operate at a nominal figure, is more than I can understand unless it is we can't do it ourselves and have it look anything other than just a "bug" or due to the fact that there are no shops or factories devoted to this industry.

Here's a chance for some of you idle mechanics to set up in business.

#### WEST STAYTON

WEST STAYTON, Ore., Dec. 23.—West Stayton school has had three days vacation while Professor Nance took examination.

Mr. and Mrs. James Condit expect to spend Christmas with their daughter, Mrs. Carl Gibson.

T. Y. McClellan has purchased a nine-ton engine for his saw mill on the Parker place. It was shipped to West Stayton by freight then skidded from West Stayton to the mill. It required 12 horses to move it part of the way.

Joe Spaulding is still looking for his new Vaughn drag saw that was taken out of the timber where he had been using it a month ago.

Rev. Mr. Danley has organized a Sunday school at Pleasant Grove and everybody is invited to attend and help make it a success.

#### SELLS TIMBER TRACT

EUGENE, Ore., Dec. 23.—G. B. Hengen announced here today that he has just sold a tract of 2500 acres of fine timber land

near Comstock, Douglas county, to L. A. Rothe, a Washington man, who said he may erect a sawmill. The purchase price was near \$100,000, said Mr. Hengen.

A pound of beefsteak costs 70,000 rubles in Russia, but that is offset by the fact that there is no beefsteak.

#### Greetings for Christmas

MAY CHRISTMAS sunshine light your whole life the whole year through, is our wish.

Lloyd E. Ramsden

387 Court Street

#### STATE SCHOOL OF Automotive Engineering

Under Supervision of  
State Board of Vocational Education

With the rapid development of automotive transportation—and the more recent development of the airplane—the demand for trained mechanics is becoming more and more imperative.

Under the Smith-Hughes act, any person over the age of 14 years can attend this school and the government will pay half the tuition expense.

There are evening classes for car owners, where you may bring your own car and work on it under expert supervision.

The instructors are college trained men, receiving their training at Oregon Agricultural College.

The courses taught are: General Automotive Engineering, Automotive Electricity, Battery Repair, Racing Car Design and Manufacture. Later there will be a class in Airplane Design and Manufacture.

Classes commence October 2, 1922. For further particulars write.

H. J. Milson Instructors L. U. Eyerly

173 S. Liberty Street, Salem  
Room 1, State Capitol, or phone 76 or 666

#### Battery Courtesy

As we see it in this business, courtesy means taking care of you promptly when you come in—seeing to it that you get exactly what you want—and that you're thoroughly satisfied when you drive away.

There's no place for anything like a "don't care" attitude in a business like this one of ours.

We want your battery to give you all the months and miles of service there are in it whether it happens to be a Willard or not.

E. H. BURRELL

238 North High

Representing  
**Willard Batteries**  
(THREADED RUBBER INSULATION)

A most hearty wish to our many friends  
and patrons for a

Merry Christmas

and

A Prosperous New Year

HARRY W. SCOTT

"The Cycle Man."



TO OUR FRIENDS and PATRONS  
We extend the wish that this may  
be the most happy and prosperous  
Christmas that you have ever known.

VICK BROTHERS

High Street at Trade

The Willys-Knight Motor Improves With Use

#### WILLYS-KNIGHT

Roadster, \$1445.00; Touring, \$1455.00; Coupe, \$1875.00; Sedan, \$2235.00.

\$2235

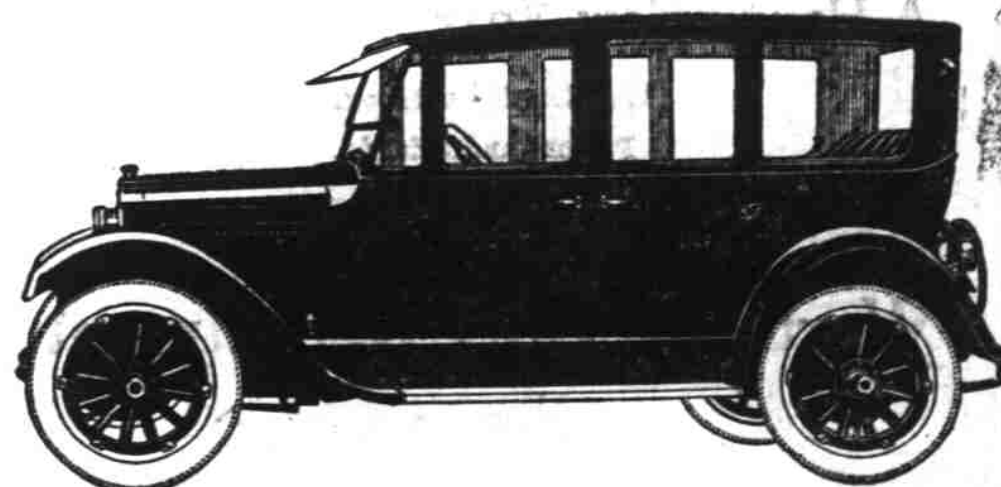
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A  
Trouble Free  
Car

Willys-Knight owners escape a world of trouble common to ordinary motor cars and enjoy a world of comfort which thousands say they cannot get elsewhere.

The Willys-Knight has the only type motor that improves with use.

At the present price the Willys-Knight Sedan has no equal today.



Vick Bros., High Street at Trade.