THE OREGON STATESMAN, SALEM, OREGON

SUNDAY MORNING, JANUARY 13, 1924

Greater Mileage - and Skid Proof

T'S a mighty strong recommendation to a far sighted tire buyer that a C-T-C will travel farther and skid less than any tire he can buy, isn't it?

That is why you are seeing C-T-C tires on more and more cars every day - and are hearing their song of safety as they swish by on the wet pavement.

You can't afford to take the risk of driving those old skiddy tires. Put them by until dry weather comes and equip with C-T-C's.

If you are in doubt of C-T-C superiority, go to any authorized dealer before January 15th and take him up on the following guaranty:,

Simultaneously place a new C-T-C and any other new, tire, of same size on opposite wheels.

If, or when, the C-T-C fails to outwear the other tire, you will get a new tire FREE.

And remember, C-T-C'S DON'T COST MORE than ordinary tires.

> **Columbia Tire Corporation** Portland, Oregon

> > RES

Authorized C-T-C Dealers in Salem **Columbia Tire Corporation Factory Branch** 447 Court Street, Salem

Vick Brothers, Federal Tire Service Ira Jorgensen. Other Dealers Throughout the Country.

intake manifold is free from leaks, that ignition is timed properly, and that plug gaps are set with proper clearance and that a suitable grade of oil is being used. Many of these points, if not in proper adjustment will promote exhaust smoking and the wetting of plugs and walls of combustion chamber. Therefore, after all of these items have been considered and adjusted the motor should be driven far enough to burn up the accumulation inside of cylinders that develops through improper adjustment. If, after all of these items have been considered and corrected, the exhaust from muffler continues to smoke badly, it is a pretty good sign that pistons are passing oil and that the ring or piston itself may be at fault.

This condition prevails sometimes in new motors before the rings have time to wear into a seat. It is always best to run the car several hundred miles to give the rings a chance to wear in. The condition also develops through excessive ring wear caused by rich mixtures diluting the oil. As the ring wears, it becomes loose in its groove and develops a wide gap. If the ring is loose in the groove, it will cock or rock in the up and down motions of the piston, thus preventing the sharp edges from scraping the oil down properly. This in my experience has been found more harmful than a gap that is slightly wide.

Ringe that are tight or stick in their groove will not function properly. Frequently rings that are not concentric get past the inspection. These requires a great deal of mileage to wear in and if very eccentric will never wear in. The original set of rings that are fitted to motors in the initial building always wear quicker than the second set that is installed after car is in service, because, no matter whether the manufacturer grinds, reams or hones the cylinder bores, there is a certain amount of roughness that promotes ring wear until the bores become polished from use. Now the second set of rings installed have only to wear their own face in against a polished and seasoned cylinder wall. Thus, with good rings and reasonable care of car the second set should last almost indefinitely.

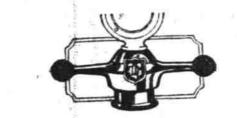
Another condition affecting rings seriously is frequent overheating, or occasionally running out of water. This runs the expansion and temperature of rings up to a point where their tension becomes deadened. That is why your instruction book warns you about keeping radiator well filled at all times. In the course of an hour rings and valves can be se-



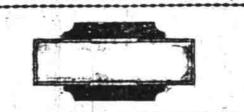
An extra day on which your car will be used. An extra day of pleasure for you, and wear and tear on your machine. The degree of comfort, pleasure and service you receive from your car depends largely upon the time, care and attention you give it.

Towards this end, "Western Auto" stands ready to serve you. Every Accessory or Part added to our complete line is considered from that point of view-your comfort, your pleasure, your safety.

It is for this reason that the Western Auto Supply Co. is termed "Auto Supply Headquarters." There is a "Western Auto" store conveniently located in your city.



Monogram Radiator Caps Will individualize your car-can be furnished with any letter desired. Screws on like an ordinary cap, but positively cannot be removed. Each. \$3.85 to \$5.75, depending upon make of car. Other capslocking and plain-50c to \$3.85.



INTERIOR MIRRORS

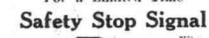
Watch the road in back of you without inconvenience these mirrors can be adjusted to any desired angle. For open or closed cars, \$1.65.

Other Interior Mirrors, \$2.15 to \$2.95. Exterior Mirrors, 85c to \$2.65.

STEP PLATES

The very popular "Klassy" step plates, made of rubber with aluminum frames and guard, will enhance the beauty of your car. The price, each, is \$1.50. Other models as low as 85c.

For a Limited Time



Black Enamel

Nickel Rim ...

Per yard 15c.

Order by

Our Guarantee

Protects You

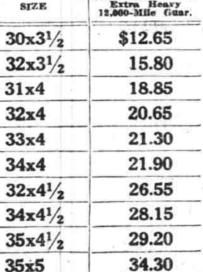
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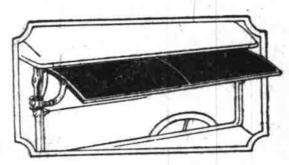


They Grip Wet pavements do not, in any

interfere with the non-skid qualities of Western Giant Corgs. The sharp edges and the row of deep suction cups cause a suction which grips the read and prevents side slipping, as well as reducing skidding to a minimum. There are many other reasons why you will be satisfied with these tires-try one.

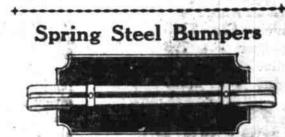






Green Pyralin Visors Only \$5.95

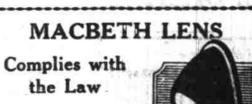
One of the neatest and most desirable visors on the market. The genuine Pyralin breaks the glare of the sun-the highly polished nickel-plated brackets and fittings make the visor ornamental as well as practical. Other models in Pyralin, all metal, Green Glass and Durable Cloth-\$2.95 to \$10.90.



A very strong and neat appearing bumper-made of fine spring steel tempered in oil and triple nickel-plated—first nickeled, then cop-pered and finally re-nickeled and polished. Fits the car perfectly. Priced \$13.30 to \$17.50, according to size. Round Bar Bumpers, \$8. Double Duty Bumpers, \$14.50 and \$18.75.

PEDAL PADS

Prevent the driver's feet from slip-ping off the pedals. We have various pat-terns for all cars, from 25c to \$1.00 per set.





gallon of oil and second, the mat- nosis,

and how to detect same. However, are not passing oil, as follows. matters covered in recent articles nosed as at fault.

oil passing pistons before spend-

In the last two articles, the mat- ing the time and money necessary tighten plug or cylinder head or first. However, the most importter of excessive oil consumption to correct such a condition, be-

oil consumption to appear excess to follow these articles carefully machining, but this is a job for the to explain matters. sive. The present writing will and remember the points that sug- repair man. deal with loss past piston and rings gest when pistons and rings are or The writer would never recom-

mend a change of rings on the Oil Leaks. An oil leak on the surface of first examination of an owner's should be carefully considered be- cylinder block or at head gasket car on a complaint of this nature. fore pistons and rings are diag- joint does not indicate oil pump- First of all, he would want to know

ing, nor does an accumulation of that the loss of oil did not result Thousands of dollars and many ofl in the pocket around spark from leaks at other points covered good pistons and rings are being plug, which results from leaky in last two articles. Second, would condemned daily because of oil plug gaskets, mean that anything make sure that valves are in good loss at other points, while many is wrong with pistons or rings. I condition and set. with proper other cars are running about the know of several cases in which pis- clearances, between tappets and sary smoke out of the muffler that tons or rings were changed be- stems, that carburetor and dash need new pistons and rings. The cause a head gasket was leaking a control are properly adjusted, that

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riously damaged by overheating. little oil, and I once had a request When having new rings fitted to from a sales representative in Dalworn grooves, an oversize ring las, Texas, to send a man down to investigate a customer's motor should be used. It is more importhat was pumping oil. Upon ques- tant that rings fit grooves proptioning the man as to how he erly than a little too much clear-

reached this conclusion, he stated ance at the ring gap. If proper size rings are not that plug was wet on the outside available, labor will be lost in fitand a pool of oil kept forming around the pocket in which plug ting new loose rings.

Work of this nature should be sets. This condition will always CHECKING MOTORS FOR EX- point is, let us consider carefully develop when a gasket leaks no trusted only to good mechanics. It CESSIVE OIL CONSUMPTION | the symptoms that would indicate matter how good the pistons and is always best to consult the servrings may be. The correction is ice manager representing your car

replace gaskets. In some cases, ant matter is to determine that was discussed in detail; first, what cause if it happens to be some oth- the cylinder head or bloc may be rings are at fault, because if the er cause, somebody has to foot warped and a new gasket will not trouble lies elsewhere, you will was considered a fair average per the bill for the mistaken diag- help until the warped condition is not want to pay your bill and the corrected, either, by lapping the service manager or mechanic will

ter of leakage which would cause It will benefit every car owner head to bloc with emery or by be embarrassed and find it hard

For Owner's Scrapbook

Last week-Checking Motor for Next week-A Precaution Per-

tinent to Safety. (Copyright 1923, by The Christy Walsh Syndicate)



Vick Brothers' **Used Car Bulletin**

1922 Ford Touring	\$290.00
1918 Maxwell Touring with good tires	
Ford Truck with body and cab	\$275.00
1918 Ford Touring	\$100.00
490 Chevrolet Touring	\$75.00
Oldsmobile Truck like new, has body and cab.	\$850.00
Overland 90 Touring	\$50.00
- Dodge Coupe repainted	\$575.00
Buick Touring- what have you to trade.	ant i
Studebaker 6	\$100.00
1922 Overland Sedan	\$640.00



High St. at Trade

California Professor Denies He Said Animal Would Follow Dodo

Professor E. L. Furiong, of the useum of palcontology of the University of California was quoted in a San Francisco paper as having said that the horse was to follow the dodo, and would be practically extinct upon the American continent within another cen-

This story went on to say that the professor was busy gathering specimens of the modern equine family; and the professor was further quoted as saving:

"You may find horses in the zoos in another hundred years. am suer you will not find them anywhere else " Interesting, if ture. Fortunate-

ly a California horseman, Fred H. Bixby, of Long Beach, who has five of the largest ranches in the state, read the news story and wrote Professor Furlong. Whereupon the noted authority on pal-

conotology promptly replied, flatly denving any such statement. We quote from his letter as follows:

"I am quite well aware that horses are replacing the tractor in many places, and I believe that as long as man is on this earth the horses will be his companion and helpmate. I did show the reporter some of our fossil horse material and told him that horse specimens were in the museum.

vidual horses of the recent period and I only wish we had more for comparative studies. I read the same article to which you refer and take great pleasure in advising you that the author of the article did not quote me verbatim in anything that he said; he was following out his own line of thought me, although writing his articles' in that form. I did not make the statements quoted."

CAR FOR EVERY SEVEN

SUNDAY AUTOS

The prediction that there wil be 16,000,000 motor cars in the nited States in 1925 seems like- becoming a pleasant, exhilarating iv of fulfillment.

000; 1917, 5,100,000; 1918, 6,-

2.300.000. The per capita increase n automobiles has gone up by leaps and bounds since 1900, when only one height to keep the wind or rain a car. In 1905 the proportion was one car to every 1060 persons; in

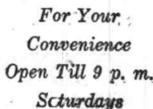
1910 it was one to every 195; fu 1915 it was one to every 40 persons; in 1920 one out of every 12 persons you met owned a car; in 1922 one in every eight persons owned a car.



Western Auto 5

Corner Court and High Streets/

Supply Co.



ger. It is made of mica compo sition and fastens to a leather covering, which can be drawn completely over the sidecar when not in use. The windshield can be raised of lowered to suit the passenger's convenience. The Harley-Davidson company also makes a unique sidecar hood, which, senger as in an automobile. This can be detached at will and speedily set up when the occasion arises

Most Popular Machine

Motorcycling in the winter, once The Harley-Davidson is by far regarded as rather a cold propo- the most popular and economcal sition for the rider and for the pas motorcycle, its dealers claim. For this reason, it is pointed out, po-Senger in the side car, too, is now lice and sheriff departments choose this make for traffic and sport, thanks to the improvement speed work. Accrding to factory In 1913 there were in this coun- made in all-weather equipment. reports 1100 police departments ry 1.200,000; 1914, 1.700,000; The latest in riding comfort comes were using Harley-Davidsons at 1915, 2,400,000;; 1916, 3,500,- to the market in the Harley-Div- the end of 1922. At the close of idson Motor company, which has 1922 more than 1500 police de-100,000; 1919, 7,300,000; 1920, introduced the windshield and leg partments were using these machines. The cost of running a motor-

Made of Mica The shield is made of a mica

cycle is a big factor to consider when city or county money is involved. Government statistics from the rider's face and body. On show that a fair average operating cost for a motorcycle is 3

the new 1924 Harleys can be cents a mile, while an automobile equipped the metal leg protectors, which keep the driver warm and costs 7 cents a mile. This includes dry in all weather. The heat from depreciation, etc.

End Good Year

metal guards are attached and Reviewing conditions during they greatly add to the rider's 1923, Harry Scott, local Harley-

Another innovation is the Har- Davidson dealer, said yester- 147 South Commercial Street A good salesman is a person ley-Davidson sidecar windshield, day: "The year has been a good

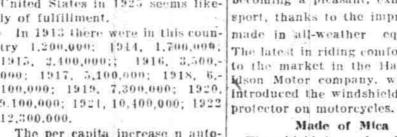
\$2.50

Down Buys a New Harley - Davidson

on our New Easy Club Plan. Come in and let us explain it i to you.

We also extend the same terms on used motorcycles. \$50 and up

HARRY W. SCOTT



the engine is not lost when these

comfort.

FOR MOTORBIKES

and statements and not quoting Harley-Davidsons Have Lat- when crected, encloses the pasest in All-Weather Riding Comfort for 1924

