SHORTAGE IN STEEL HAS

TERROR OF SKIDDING IS PREVALENT AT THIS TIME

F. W. Mueller Says Use of Brakes Should Be Avoided When Anti-Skid Chains Are Left at Home

By J. W. MUELLER

A fears most in the daily handling of than all others that the motorist fears, it is that sickly sinking of one's interior that comes with the sudden and entire bad skid.

and skid. The reckless, the foolish and the in-competent pedestrian can be guarded against: even the man who loses himself in a brown study in the middle of a busy street and the old lady who dutters back and forth in the path of a car like a be-fuddled hen can be taken care of with the brakes. But with a skid once started and the brakes and the ability band at the brakes. But with a skid once started only Providence and the skilful hand at the wheel are of any avail. The skile all is almost always entirely unexpected. but, unlike the former, it is not always unavoidable. The case is distinctly one for preventives and not for remedies. There is no remedy for a bad skid but to patch up the damage and gather to-setther your abaken nerves as best you may:

As an absolute preventive of skidding non-skid chains will naturally suggest themselves at once to the reader, and it may be added that two of the insurance They be added that two of the insurance companies that write automobile accident policies have taken cognisance of the frequency of accidents caused by skid-ding and recommend the use of chains. In truth, if the chains are in their proper place on the tires our "ever present dan-ger" has been exorcised, so that the re-marks which follow may be taken merely as advice for that day when somebody forgot and left his chains in the locker at home. And right here we can offer the best anti-skid rule, to keep the chains in the car and not trust to remembering to put them there just before you start out.

NEW WILLYS-OVERLAND IS ATTRACTIVE MACHINE Four New Features Found in Model 75, the Latest Type on Market Of the various models brought out by the Willys-Overland Company during the last season none have been received more enthusiastically than the latest and smallest member of the family, which is known as model 75. Only a few weeks have elapsed since John N. Willys an-nounced to the public the details of this ear.

car The crowds which continually surroun It in the Overland booth at the show are a good indication of the world-wide in-terest it has already created.

The price appeals strongly to those who prefer a car with the advantages of the larger and higher-priced models, but that it is smaller, lighter and more economical to run. Model 75 is designed to meet this demand and not to replace the larger four-cylinder Overland model. Although the wheel base of 104 inches allows a body providing comfortable seating capacity for five passengers, the car weighs but 2100 pounds. The light weight assures the

utmost in economical operation. Four advantages seldom found in a car of this kind stand out prominently in this latest product of the big Toledo factory. An electric starting and lighting system four-inch tires, cantilever rear spr and electrical control buttons on spring

BK THE average motorist what he fears most in the daily handling of machine and the answer will be "skid-ig," for if there be one thing more troi during a skid, for if the rear whoels can be made to resume their usual func-flom of rolling after the front ones, the tion of rolling after the front ones, the slide will be over. The average motorists first impulse is to jam on the brakes hard. With the result that the driving wheels immediately lock and continue to travel sidewise on the small section of the tire that lost its fraction and caused the skid is the first place. In the first place of the street of the street and include starting, ignition and include starting, ignition and include starting, ignition and

In the first place. If it be possible to avoid the use of the brakes, and the front wheels be thrown mmediately in the same direction as the immediately in the same direction as the rear of the car started to slide, the ten-dency to keep up this process until the car lands up against the curb or some other equally unpleasant obstruction will be sounteracted and its progress crab-wise arrested. For example, if in at-tempting to pass another vehicle to the left the rear wheels refuse to take part in the maneuver, but durt on a swine for In the maneuver, but start on a swing for the curb at the right, the steering wheel should be immediately swing in the same direction, thus presenting the four wheels of the machine as a broad "V" against

the sliding action. Where the pace is overfast, considering Where the pace is overfast, considering the slipperiness of the surface, the energy of the moving body cannot be absorbed in a short distance either by the brakes or the turning of the steering wheels to counteract the slide. Then occiws that most-to-be-dreaded of all skids - the "stanhay on all four," against which only a swift mental appeal to Providence and a resolution to use the tire chains next

marks which follow may be taken merely and the follow may be taken merely are subject to the follow may be taken merely are subject to the follow may be taken merely are subject to the follow may be taken merely are subject to the follow may be taken merely are subject to the follow may be taken merely are subject to the follow may be taken merely are subject to the follow may be taken merely are subject to the follow may be taken merely are subject to the follow may be taken merely are subject to the follow may be taken merely are subject to the follow may be taken merely are subject to the follow may be taken merely are subject to the follow may be taken merely are subject to the follow may be taken merely subject to th



MOTZ AND PORTAGE TIRES ARE HALL SPECIALTIES

EVEREADY BATTERY

Completely Eliminates All Sulphation in Storage

Many who believe that injurious harm-ful sulphation in automobils storage bat-teries is a necessary evil will be sur-prised to learn that a new battery called the Eveready is sold with a positive guarantee to be nonsulphating. It will be a boon to automobilists, for sulphation is the greatest source of trouble in storage hatteries. batterles.

batteries. The claims of the Eveready are very aweeping. The complete elimination of sulphation means a great deal less care and attention, insures maintaining full porosity of plates, prevents loss of capacity and efficiency, makes frequent recharging unnecessary and gives longer life. This battery, of course, does away with regular periodic recharging and overcharging to prevent and reduce sul-phation. No injury results from buckling of plates on heavy discharges. These batteries are shown at the 1916

No one is more sharply affected by the present steel shortage than is the auto-mobile maker, but there is good reason to believe that the organized strength of the automobile industry may prove suf-ficient to tide over the difficulty and pre-vent the development of serious conse-quences. The automobile manufacturers were never in better position to co-oper-ate in overcoming obstacles than they are today. today.

With an unsurpassed demand for their products, and with the many manufac-turing economies that have been intro-duced within the last two years, the stringency of materials is practically the only cloud in the sky, and this can be dis-

War Material Has Caused the Makers Much Concern During the Last Few Months

AFFECTED AUTO MAKERS

who claim they are at present hand dura-bility of the metal, and are believed to be generally favored by the steelmakers, who claim they are at present handl-capped by too rigid restrictions which influence adversely both deliveries and.

are widely used in automobile manufac-turing and which are produced under the standard specifications of the Soutety of Automobile Emsineers. These specifica-tions, which are almost universally em-ployed by the automobile makers, call for a sulphur content in carbon steel of not to exceed five hundredths of 1 per cent.

It is claimed by accredited authorities, however, that it is possible to permit a considerable increase in suppur without impairing the strength of the material or its hot-working properties to an appre-clable extent.

Tests conducted by Dr. J. S. Unger.

"Never befors have the automobile makers been so well able to meet and conquer a common obstacle as they are

reconstruction, and because manufacturers in all lines, in er to adjust themselves to it, m sarily suffer some embarrassmes Ing more grave."

TRAILER A MEDIUM TO INCREASE TRUCK TONNAGE

The great economic problem of ince

the Carnegis Steel Company, are said to have demonstrated the truth of these as-sertions in a thoroughly scientific manner.

conquer a common obstacle as they are today. And this fact must be taken into account in any consideration of the pos-sible influence upon the automobile mar-ket of the present difficulty in obtaining materials for the coming year.

ing the carrying capacity of the motor. truck and adding to the profitable ton nage per load is being largely solved by the use of trailers. It is a mathema fact that every car can pull from two to four times as much as it can carry and in addition bear all that it was made to carry.

to carry. The Kaystone Aute Supply Company advocates the use of the Simplex trailer. The Keystone Company claims for this trailer that it is the only one this actually follows in the track of the track it is built on mechanically correct lines and has in it the kind of material and workmanship to insure extended service. Demonstrations will gladly be furnished at 2730 North Broad street.



Here are the facts - established by thousands of American People

IRST and foremost, let us remind you that the Paige Fairfield "Six-46" is a tried and proven success.

By carefully studying the combined experience of owners, we have been able to proceed intelligently in perfecting this car until it has been brought

steering column are a sample of what the Overland Company has been able to include in the high-grade equipment of this ow-priced car.

The electric starting and lighting system is of the efficient two-unit type and is entirely independent of the ignition. The fixt-inch tires are larger than can be found on any car of similar specifications, while the cantilever rear springs are sequevided to be the casiest riding springs ever designed.

The use of these springs reduce to a minimum the jarring produced by driving over rough or uneven roads.

L. S. Hall specializes in tires, the Motz and the Portage. . . Mr. Hall, who is head of the L. S. Hall

Rubber Company, of 1402 Ridge avenue, is one of the most experienced tirs men in the industry. His connection with pneumatic goes back to the old bicycle day, long before the advent of the auto-mobile.

In handling the Motz and Portage he has selected two very popular brands. The Motz is a realisent solid tire, which is used for electrics and light delivery trucks, and is guaranteed for 10,000 miles. The Portage is pneumatic-guaranteed

At the Show Space Lewis Spring & Axle Co.'s **EIGHT-CYLINDER** TOURING CARS ROADSTER Colonial Motor Co. INCORPORATED 664 N. Broad Street

DISTRIBUTERS

4000 miles.

It isn't necessary for us to "claim" that this handsome seven passenger car will render unfailing service day in and day out.

- It isn't necessary for us to "claim" that it is staunchly built-mechanically efficientsuperbly designed.
- All of these things have been definitely established by thousands of American people who own the "Fairfield"-people who have selected it in preference to all other light Sixes on the market.
- When you buy a Paige "Six-46" today, you are buying a car that has passed the experimental stage. You are buying a car of known quality-known ability.
- In a word, the "Six-46" is an eminently safe automobile investment
- It is a good car-not merely because we say so -but because its owners have conclusively established this goodness in the gruelling tests of more than a year's actual road work.
- Other "Light Six" makers are now introducing 1916 models. Some of these makers feature new designs-new power plantsnew engineering theories.
- In the course of time, these innovations may prove thoroughly practical in every way.
- But until that time comes-until these cars have been thoroughly "tried out" in actual service-the prudent man will be inclined to buy the car with a tangible record of accomplishment behind it.
- As it stands today, the Paige "Six-46" is a thoroughly finished product.

- up to the current day-the current hour-of six cylinder elegance and luxury.
- In our opinion, no more efficient six cylinder power plant can be produced and every feature of the car throughout is in keeping with the high mechanical standards.
- Power-more power-power to spare!
- That is the only way that you can describe this wonderful motor.
- So far as flexibility is concerned, you can amble along at two miles an hour or sweep up to sixty without change from high gear.
- Steep hills and heavy clinging sand roads are mere child's play for the "Six-46.
- This car is practically throttle controlled. It re-sponds to the slightest impulse of the accelerator and is ideal for the woman driver who must pick her way in the thick congested traffic.
- And then consider the matter of design.
- Beyond any question of doubt the Fairfield is the most widely copied car that has ever been placed on the American market.
- Remember, Paige first introduced the pure European streamline twelve months ago.
- Look around at the automobile shows and see for yourself whether or not this design has been copied by practically all makers of quality cars.
- Above all, the Paige "Six-46" is a "sensible" car.
- While there has been considerable talk about excessively high speed motors, we flatly refuse to support any such propaganda.
- Paige motors are built to endure, and we believe that it is impossible to reconcile excessively high speed with minimum wear and tear on working parts.
- It is our policy in the Paige factory to build safely and sanely. The cars that we market are established successes-not experiments.
- On this basis, we enjoy-and shall continue to enjoy -the absolute confidence of Paige owners and Paige distributors the world over.

PAIGE-DETROIT MOTOR CAR COMPANY, Detroit, Michigan

BIGELOW-WILLEY MOTOR CO.

304-306 N. Broad St., Philadelphia, Pa.

Phones-Bell, Spruce 6410; Keystone, Race 1362