Touring Car

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## MANUFACTURER OF MOTORCYCLE **GAINS FROM WAR**

Extraordinary Work Performed During Great Struggle; Much Done Toward "Improving Breed."

The motorcycle has, beyond question, performed extraordinarily valuable work in all theaters of war, and especially on the western front, but it is rather to be doubted whether, apart from the fact that war conditions have imposed upon them a test of strength and durability such as they never underwent before, very much has been done directly toward "improving the breed" these machines.

This state of affairs was only to be expected, as with the exception of their use in the earlier days as mounts for machine guns, they have been employed to the number of about 50,000 almost exclusively in an auxiliary capacity for dispatch work and upon the lines of communica-tion; in this function reliability and the facility of furnishing repairs and replacements have been more important than any other considerations. In consequence a high degree of standardization has been sought and achieved, with the result that the military and air force motorcycles today are almost exactly similar to those sent out at the beginning of the war. This does not mean that valuable lessons have not been learned, for atrocious road condi tions have disclosed numerous weak nesses which have called for immediate remedy, but the full extent of the knowledge gained will not show itself until the new designs appear and invite the custom of the private On Western Front.

Out of the numerous makes before the public in 1914 very few succeeded in coming up to the standard of war requirements. On the western front practically only two types have been continuously in the service under the R. A. S. C. administration, and one only under that of the R. A. F. The last is a single cylinder model with all-chain transmission, and the others, single and twin-cylinder machines, driving through chain and belt. Other makes have been used to a less extent on other fronts. As might have been supposed, the principal troubles have been the result of sever wear and tear due to mud and dust, and breakages caused by a combination of high speed and abominable road surfaces. Of the two R. A. S. C. motor-cycles one was much heavier than the other, and for this reason showed a rather better performance on the highway But the lighter type was not without its advantages when ploughed fields and bypaths had to be explored for

Spills Frequent. Spills and other misadventures were naturally frequent and the more exposed parts of the machine such as handlebars, mudgards, carriers, and footrests, suffered extensively, but it would be impossible to cavil at the general reliability of the power and transmission units. Certain minor ailments, of course, manifested themselves-clutch-slip-

ping for example—but replacements of atouter design wrought a cure. and gear fitness was equal to the demands made upon it, the same cannot be said of frames and forks.

Seeing however that Political Problem Taken Up in Detail at New York Auto Show; Seeing, however, that British motorcycles were made for British roads, one can hardly be surprised at a per-centage of failures over shell-holes, pot-holes and worn-out pave. One thing has at least been definitely shown, and that is that a well-de-signed machine will go almost any-

thing has at least been definitely shown, and that is that a well-designed machine will go almost anywhere, roads or no roads, and with such mechanical progress as one known has been quietly taking place, it will be very machine will be very machine extensively will be very the slow to take advantage of the valuable experience which has been gained in aircraft, and more especially seroplane engine design. Better material and technique will lead to a notable reduction in weight, and it is to be dequate springing, fore and aft, will remove the only excuse which exists for making the machine heavy, namely, encouraging it to "hold the road," will a light rider. One is confident of finding the post-war model very much more weather-proof than formerly, and it is to be hoped that efforts will be made to render; indicable in the wet without special coloning.

The single cylinder models adopted by both the R. A. S. C. and the R. A. F. have been extensively used for silecar work, and, strangely encourning a sense of the society. Dr. Dickinson, who is not shown and the state of the siles we have only petroleum products, alcohol, bernzel and possibly reduced speed and kept the road and coadworthy than as solo machines, as well as notably superior to certain twin cylinder combinations, which were employed for passenger carrying to a limited extent. This is to be asscribed to the fact that the passenger attachment considerably reduced speed and kept the road almocks within the capacity of training the content of the same and spring forks. One would not on this account prophesy that the "big-single" is the side carmount of the future, but it must at least be conceeded that in war conditions its virtues have been promisent, and that it has enhanced its reputation as a "get-there" out; the result of the future who have been promisent, and that it has enhanced its reputation as a "get-there" out; the continuous as "get-there" out; the side of the future which are the passenger attachment considerably reduced speed and kept the r ditions its virtues have been prominent, and that it has enhanced its reputation as a "get-there" outfit, almost ideal in point of simplicity and reliable to the tree filters are being made to construct appliances for gasoline engines, enabling them to utilize kerosene as a guarantee of 100,000 miles possible are contained in the composition, together with the resilience of the "air" tire. The filler is not a liquid. The almost ideal in point of simplicity and reliability. These points assume an even greater importance when it is remembered that in a very large number of cases the management of side car combinations has been quickly taught to men and women previously unskilled in this art.

It is clear that an immense future for the motor cycle is assured, and

own tire repairing a mighty handy sumption."

After enumerating the various been antique bridges built in the which is firmly tacked a sheet of ciency in the use of fuel, Dr. Dick-days when light buggy traffic was around cuts in the casing. Similariy smaller sticks with sandpaper
wrapped around them are useful in
cleaning around punctures in the
To bring about this highly desirin the casing. Similarengineers can succeed in reducing all
partments are overcoming this
handicap to travel by replacing these
structures by solid concrete spans.
In 1917 \$47,290,796 was expended in
tubes.

## First Yank Into Hunland After Armistice Signed



after the armistice was signed was across the border and shows the Sergt. James Reese Brewer, Motor- German retreat across the Rhine, cycle company No. 305, motor dis- The driver of this Harley-Davidson patch service, expeditionary forces, did not know at the time the picturaccording to dispatches received was made that he figured so plainly

passed service in the motor disptach

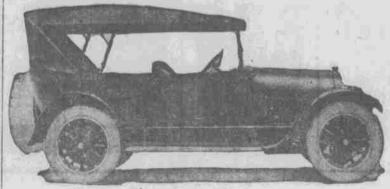
The dispatch read: "This picture was taken in Germany November 12, 1918, by a Ger- after the armistice was signed.

The first Yank to enter Germany | man photographer in a small town from France.

Incident to Brewer's entry into German territory, the young sergeant rode a Harley-Davidson mostly and the story of the s torcycle of which kind innumerable had. He was absolutely the firs quantities are performing unsur- American soldier to enter Germany."
passed service in the motor disptach | It was learned that Sergeant Brewer led a platoon of motor dispatch drivers on Harley-Davidson motorcycles into Germany the day



Mitchell Touring



Cadillac Eight

Prime Factors Are Considered.

The problem of fuel economy in automotive engines was discussed trucks amounting to 2,000 already extensively at the annual meeting of closed, the Hebb Motor company, of

for the motor cycle is assured, and it has emerged from its war ordeal triumphantly as an indispensable instrument of transport.

This causes carbonization and tubrication difficulties with no resulting advantages. With better carbure- months, more than 100 local business. Sandpaper Block.

For the car owner who does his out the present total gasoline con-

sandpaper. This is used for cleaning inson pointed out that if automotive the rule. Gradutlly the state de

able result it will be necessary to put the best minds to work on the pro-blems involved," he said. "Re-searches and tests will have to be nore extensive and more thorough than in the past. No one company o find the whole solution. necessary for all concerned to share in this work if we are to carry out our object of conserving the avail-able supply of engine fuel."

### Hebb Motor Co. Has Contracts Closed for 2,000 Trucks



The soundest reasons for your owning a Dort are furnished by the actual experiences of Dort owners.

What they say as to the competent performance and marked economy of this car is, we believe, the truest index to the real value of the Dort.

They will tell you that it stays "tuned up" a long time. That it does not require frequent adjustment.

They will speak in the same satisfied terms of the mileage it gives in gas and oil, and on tires-longer mileage per gallon you will find than what is commonly regarded as good

They will tell you also that it is a very easy riding car, that it does not bump you and jar you on bad roads as many light cars do.

Now these are qualities of the Dort that you can easily verify for yourself in a single ride. They are the fine results of the high standard of Dort manufacture.

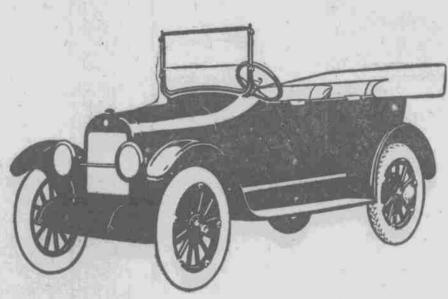
They contribute, together with the well known Dort simplicity and accessibility in construction, toward making the Dort the desirable car to own that it is,

We speak specifically of Dort accessibility and simplicity because it is important that you should know just how simple and accessible the Dort is.

Perhaps the best way we can make this clear is to say that when you should feel it desirable to "tune up" or "dope up" or adjust this or that part you can do it yourself easily, quickly and inexpensively. Ask yourself how many cars could show you such simplicity.

And of course it is almost needless to point out that the simpler a car is, the freer it is from possibility of trouble.

At a Dort exhibit at the Motor Show you will find a full line of the Dort models. We urge you to make sure to see these cars for they are truly fine examples of able engineering practice and sound, careful construction.



TOOZER-GERSPACHER MOTOR CO.

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Fourseason Cars

Open Care

We are exhibiting on the stage at the show in the same space we have had for the past three years.

# MOTOR CAR COMPANY

Flint-Mich.