HE VALUE OF MOTOR STEWART PROMOTED

Engineer of Chalmers Company Emphasizes Its Necessity

honestly believe that one-half of troubles experienced by drivers of

the troubles experienced by drivers of otor cars are due to defective lubriation. Not because the amateur drivrs of automobiles lack of intelligence,
at because, as a general rule, they
re people unfamiliar with machinery,
ubrication is the most neglected
hase of automobile care.

And this, in spite of the fact that
brication is really the most imporant item in keeping a motor car in
od running order. Squeaks and ratres are not the only results of failre properly to lubricate working
arts. Grease and oil have two main
anctions in any piece of machinery,
irst, to overcome undue friction,
econd, to keep the rapidly moving
arts cooled.

If you fail to lubricate your car, you

inctions in any piece of machinery, irst, to overcome undue friction. scond, to keep the rapidly moving arts cooled.

If you fall to lubricate your car, you ill probably get squeaks, but more apportant, you will get a loss of ower, and if you neglect lubrication so greatly, the motor will absolutely base to perform its function.

At the Chalmers factory we have segmenal rule—when in doubt, lubcate.

It is not hard to keep a car propty oiled and greased. A little system ill insure that every part which needs brication receives it regularly. Here the principal parts of a car which equire attention.

Once each day, or about every one undred miles, the crankcase should examined to insure that oil comes p to the level of the top try-cock. Imply add new motor oil whenever he oil level falls below this point, he steering gear knuckle grease cups, hould each receive one complete turn, aulty lubrication of the steering ear is absolutely suicidal and it reuires only the simple turning of a rease cup each day practically to inner that you will never be placed in anger from the failure of your steering mechanism to operate. All spring oil grease cups should be given a pupile of complete turns each day, he springs take the entire joiling f the car. Squeaks develop in them ery rapidly, so their lubrication 's ighly important. The speedometer becomes useless if the driving gears bind own undue friction through insufficient lubrication. The wheel hubs, shich must work hard whenever the ir is in motion, should receive from tleast ten to fifteen drops of motor liper day.

About twice a week, the fan hub hould be given a few drops of motor

ir is in motion, should receive from t least ten to fifteen drops of motor l per day.

About twice a week, the fan hub hould be given a few drops of motor l. At the same time the pump shaft rease cups and steering gear grease ups should be given two complete irns. During this insepection, see hat the steering wheel and steering olumn each receive ten to fifteen rops of motor oil.

Every week give the spark and rotle shafts a few drops of oil. In he weekly inspection see that the ransmission case has enough oil to over the lower sliding gear shaft. It the same time thoroughly oil the rake pull rods, the clutch and brake edals, and give two complete turns of the brake cross rod grease cups. It this time see that the brake shafts or the rear wheels are thoroughly lied. Inspect the torque rod, both ront and rear, and on the weekly in-pection the grease cups should receive two complete turns. An examiation of the spring perches and one two turns of the grease cups once week will also do away with a lot funpleasant noises.

About twice a month, or say every ve hundred miles, attention should

week will also do away with a lot f unpleasant noises. About twice a month, or say every ve hundred miles, attention should e given to the magneto bearings, hey require only three or four drops f high grade light machine oil, but eglect of this lubrication may cause mition trouble.

Once a month, or about every one nousand miles of driving, the crankase should be thoroughly drained, ne oil screens and filters should be leaned thoroughly with gasoline and eo il well should be filled with moor oil to the top try-cock. During he will be monthly inspection, the spring aves should be pried apart and thoroughly lubricated with graphite grease he hub caps should be removed and acked with new grease. The leather oots on the steering gear reach rods ill also require a thorough packing ith grease once a month. At the mo of this monthly inspection, give articular atention to the universal pints. The strain carried by the universals is very heavy and to prevent nadue wear, the universal joint casses should be filled half full with cuprease, without fail, every one thousand the title of the control of the cup as should be filled half full with cuprease, without fail, every one thousand the cup of the control of the cup of the cup as and the cup of the cup of the cup of the cup as a cup of the cup of t

rease, without fail, every one thouind miles.

At the end of every two thousand
illes, the differential housing should
copened and about three pints of
the compound added. At this fime,
he transmission case should also be
boroughly drained, flushed with keroine, and refilled with new motor oil.

This detail of inspection is not at
il hard work if the owner will
hedule definite days on which to
ve his car attention.

I have found that the best system
i going over the car thoroughly, is
have a regular semimonthly inbection day. There are eight main
ems which should be gone over thoringhly in this semimonthly inspection.

First, test the compression of the
vinders. Inspect the motor thoringhly for possible compression leakwe around the inlet and exhaust
lives.

Second, go over the ignition system

righly for possible compression leak go around the inlet and exhaust slives. Second, go over the ignition system stroughly. Examine all of the wirgs, terminals, and spark plugs. See that clonnections are tight and that lere are no defects in the insulation of cause short circuits.

Third, examine the water circulation, being sure that there are no hear shout the pump and its connections. See that the fan is operating srfectly and that there are no leaks about the atter connections of the carburetor. Fourth, give particular attention to the gears move freely and that the gears freely gear for the freely gea

CAR LUBRICATION BY ABBOTT COMPANY

borge W. Dunham, Consulting Will Become Superintendent of Sales For Abbott-Detroit Cars in East



C. D. STEWART

C. D. Stewart, manager of the Ab-

C. D. Stewart, manager of the Abbott Motor Car Company factory branch at 106-108 South Second street, will hereafter be superintendent of sales for the factory and will have charge of the sales in Pennsylvania, Maryland, Delaware, Virginia and West Virginia.

Mr. Stewart came here six months ago to assume charge of the local office at the time E. F. Gerber purchased the Abbott Motor Car Company of Detroit. The promotion is a deserved recognition of Mr. Stewart's success in this territory. A great many cars have been sold during the supervision of the local office and the remodeling of the display room to its present modern appearance and the complete stock of the various models are evidences of his hustling qualities.

Mr. Stewart will assume his new duties July 1, but will retain Harrisburg as headquarters and a place of residence, where his genial disposition has gained for him a host of friends. George Natcher, who has been associated with the Pittsburgh branch of the Abbott Motor Car Company, will succeed Mr. Stewart in charge of the local office and will arrive here Monday to familiarize himself with local conditions before Mr. Stewart begins his new duties.

Miller Three-Minute Cure For Tube Repairs

Drying and vulcanizing perfectly in three minutes the new vulcanizing cement manufactured by the Miller Rubber Company at Akron, Ohio, will make it possible for motorists to have tube repairs done, and be on their way ten minutes from the time they reach the repair shop.

This is the fastest curing adhesive presented to the trade. It is known as Miller three minute cure vulcanizing cement, and is used in connection with the Akron company's tube repair gum which also has the rapid curing feature.

Much criticism has been made as to the value of a three minute cure for permanent repairs, the Miller company, however, has demonstrated the greater advantage in better curing and the faster work that can be done with the new product.

Fisk Tires Represented Here by George W. Myers

Among the various makes of tires sold in Harrisburg is the Fisk make, represented here by George W. Myers at 225 Hunmel street. The agency for the Fisk tires was assumed by Mr. Myers three years ago, during which time they have proved their worth to the satisfaction of a great many motor car owners in this vicinity. Service is one of the strong points claimed by the local Fisk agency, as all adjustments are made here without necessitating any controversy or loss of time by sending tires back to the factory. The makers guarantee 3,500 miles on their nonskid tires.

Besides the tire agency, Mr. Myers maintains a complete vulcanizing piant for the repair and rebuilding of used tires.

Penbrook Garage Makes Many Modern Improvements

The Penbrook Garage under the management of H. A. Fishburn has undergone extensive alterations to meet the requirements necessary to care for the automobiles in that thriving borough, which adjoins Reservoir Park on the east. The large barns directly south of the S. A. Fishburn store and feed mill has been remodeled, including concrete floors throughout, and pits have been constructed for repair convenience. These were originally constructed to care for the three large trucks used by S. A. Fishburn in the feed, coal and hauling business, but since the son, H. A. Fishburn, assumed the agency for the Vulcan light cars, more room and greater facilities are necessary. Therefore, the entire second floor used for hay storage will be reconstructed for storage of cars owned by the people of that vicinity and for showing the new Vulcan odels. A number of the roadsters have been delivered and the Vulcan touring car is expected here by the fifteenth of this month.

The head of one of the greatest steel mills in America walked into a Studebaker store last week and said: "Send me out a Studebaker SIX. Studebakers are the hardest people in the automobile business to satisfy on steels. Judging by their chemical, metallurgical, and physical tests, this must be the best "Six" in the world".

Studebaket Economical Light-Weight

One of the reasons why Studebakers are the hardest people in the automobile business to satisfy on steels is this:

In no other way than by heat treatment of steels can the strength of a "SIX" be greatly increased while the weight is being decreased.

In no other way than by the scientific distribution of this weight through intensive manufacturing can that balance be secured which results in the superb roadability of the Studebaker SIX.

And the important thing for you to remember is that the Studebaker SIX stands absolutely alone among light "Sixes" in the application of manufacturing methods without which light-weight, strength, balance and roadability are impossible.

How Studebaker SIX Superiority Shows Itself

The Studebaker SIX will glide silently from a standing start on high into a forty mile gait, in a distance of less than 200 yards.

The Studebaker SIX when it is skimming along at a high rate of speed will actually seem to you—from the lack of effort and vibration—to be going at a rate ten miles per hour less.

The Studebaker SIX will stick to a straight line with scarcely a touch on the steering wheel, mile after mile and hour after hour -while other "Sixes" are constantly creeping to one side or the other, and being coaxed back.

The Studebaker SIX will take steeper hills and more of them,

on high, than any other "Six" it meets in a day's run.

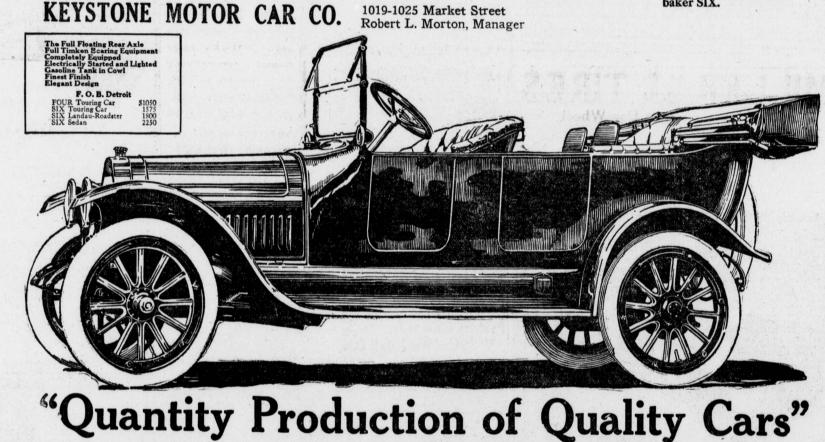
The Studebaker SIX is not merely motor-silent, but silent all over—the transmission on the rear axle, in addition to its other advantages, contributing to that result.

The Studebaker Proof Book describes and pictures the scientific manufacturing operations of Studebaker. Send for it.

STUDEBAKER

The difference between a brand-new manufactured Studebaker SIX and a brand-new assembled or semi-manufactured "Six" is immediately apparent in the superior way in which the Studebaker holds the road. And that difference grows more marked month after month. It culminates tragically, in a second-hand sale of the non-manufactured "Six" at a terrific depreciation.

The Studebaker FOUR is characterized by the same manufacturing excellence and quality of material as the Stude-baker SIX.



That sales conditions in the automobile field have been widely affected by the recent cuts in the price of gasoline, oil, tires and other supplies is the declaration of Vice-President E. R. Benson of the Studebaker Corporate tool, who says that many recent Studebaker buyers are persons who have heretofore remained out of the market, due to their former belief that maintenance expense was greater than they could afford.

"I had this increased efficiency by a personal friend," said Mr. Benson.

"This man owned a heavy, costly car last year. He decided that the cost of maintenance was too high, and changed last winter to a Studebaker light 'Six.'

"Of course, the change resulted in a greatly increased mileage for each gallon of fuel. This saving was rendered all the more emphatic by the fact that he is now paying twelve cents per gallon for gasoline, instead of twenty—this due to the general lowering of price which has featured the gasoline business all over the country.

"Though he has not yet bought any new tires, and expects to get much more than the guaranteed mileage out of this present set, he knows that, when the occasion arises, he can secure tires for his Studebaker 'Six' at less than half the cost of those he bought for his last year's car.

"A satisfactory grade of lubricating"

The work of the studebaker light 'Six' class. We hear examples of this sort every day."

Cadillac Agent Says Motor

Cars Are Popular in Japan

Japan, at first slow to adopt the motor car, is now taking very kindly to the automobile, and in fact during the past two years the industry has made very rapid progress in all the countries.

"Though the hear examples of this advance are made by the past two years ago." declares Mr. Andrews, 'there were not 100 motor car's may be a series of any but the motor car on breathy and the country.

"The Nippon Auto Club, the pioneer automobile traffic have been made and guide posts are rapidly being erected."

DOTORING EXPENSE

IS COMING DOWN

Oil can be bought for twenty-five per cent. less than he paid a year ago, and goes infinitely further in supplying the needs of his car.

"And a feature of which he is not yet aware is the lowered cost of winter overhaulting, adjustment and possible installation of repairs.

"His Studebaker 'Six' is so designed that the owner himself, if he chooses, can take down any unit needing adjustment. If he has the work done at a garage, this merit is just as strong, as the amount of labor involved is compartively small, delivery is prompt, and the bill is accordingly reasonable.

"The greatest drawback for the area grange, this merit is just as strong, as the amount of labor involved is compartively small, delivery is prompt, and the bill is accordingly reasonable.

"The greatest drawback for the merit is question of the many earthquakes.

"The greatest drawback for the area grange, this merit is just as strong, as the amount of labor involved is compartively small, delivery is prompt, and the bill is accordingly reasonable.

"The proof roads are being made with cadam. On estretch of macadamized road 167 miles long has been laid from Yoko-lama to Nikko.

"Asphalt has been used experiment ally in Tokio, but has failed so far becompartively small, delivery is prompt, and the bill is accordingly reasonable.

"The greatest drawback for the merits in Japan would be the price of gasoline. It is easy to sotal, but trust or no trust, the price of a gasoline. It is a gardent to the price of gasoline is 32 cents a gallon."

The studebaker is the price of gasoline is 32 cents a gallon."

"The proof roads are then down."

The groatest drawback for the merits just as strong, and the bill is accordingly reasonable.

"The proof roads are the lowered cost of winch he is any government a reprove it is gain.

The good roads are the price of gasoline in its membership many Government of the is lands.

"The good roads are the price of gasoline in the price of gasoline is a gardent many dovernment of the pr

Extra Special

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