

Highway
and
Auto
News

COMPANY WILL SPEND MILLION

DETROIT, May 22.—One million automobiles a year, an expansive program calling for the expenditure of \$10,000,000 in machinery, plant equipment and buildings is the program just announced here by W. S. Knudsen, president and general manager of the Chevrolet Motor company.

Never before in the history of the Chevrolet company has such a vast expansion project been undertaken, involving as it does an increase of more than thirty per cent in annual production volume.

Building plans have been completed, machinery ordered and by January 1, 1927, when the new program is put into effect, the actual work will be under way with completion of the new plant scheduled for January 1, 1927, when the annual production schedule of 1,000,000 cars and trucks will be doubled, double the volume of the old program.

Under the new program Chevrolet

let employes numbering 20,000 during full-time operation, will be increased proportionately.

Closed body production facilities, under the new program, will be increased to an annual capacity of 750,000 which will constitute 75 per cent of total Chevrolet output.

According to President Knudsen's announcement 60 per cent of the \$10,000,000 will be expended in installing improved machinery and equipment of the most modern type. The remaining \$4,000,000 will be spent in erecting additions to the various manufacturing plants operated by the company throughout the United States which at present are equipped to produce 750,000 cars and trucks a year.

Carbon inlets wear on piston pins, in addition to doing other serious damage. The reason for this is clear. When a piston top is so caked with carbon that it becomes red hot, the temperature of the piston is raised abnormally. The piston pin, being cradled in the piston itself, also becomes excessively hot. What oil splashes on it is thinned and quickly burned off. The effect is the same as if the piston were underlined.

Real Diamonds Used In Building Motors

Add diamonds to the list of materials used in the manufacture of automobiles.

Such a list has frequently been compiled by those seeking to show how great an influence the motor car has on other industries, from steel and rubber, gasoline and oil, down through scores of other commodities.

Now diamonds must be included, for the Palge-Detroit Motor Car company has found them invaluable in machine operations on connecting rods to insure finishing within the close limits required for the perfect operation in the engine.

In the final reaming of the bronze bushings in the small end of the connecting rods, it is necessary to prevent the least variation in diameter, for these bushings which surround the wrist pins, are vital elements in the engine. They carry the varying loads imposed through the piston pins during the power, exhaust, intake and compression strokes. Not only must they fit perfectly, but their bores must be absolutely true in order

that the pistons may operate freely.

With the diamond reamer now used by Palge, bushing after bushing is turned out without the least variation. Other cutting materials cannot give the same results, because only the diamond—the hardest substance known—can be used without wearing down. Any other material will wear enough to cause a difference in the diameter of the bores. As turned out in the Palge factory, the bushings, diamond reamed, are virtually perfect.

Where it is necessary to prime the engine and there is no fuel or other convenient means at hand for introducing the high-test gasoline into the cylinders through the petcocks, a little absorbent cotton can be used to good advantage. Dip this into the gasoline and squeeze out all but a few drops, then put the remainder into the petcock by pressing the cotton dry.

A car should always be in motion when steered. Tugging at the wheel while the car is standing still not only strains the steering gear, but causes unnecessary wear on the tires.

ELGIN TO WESTON ROAD TO BE OPEN IN ABOUT A WEEK

ELGIN, Ore., May 22. (Special) Opening of the road from Elgin to Weston across the Blue mountains in about a week is forecast by Albert Baker, forest ranger.

A crew was put to work recently starting at Elgin. Trees and snow drifts will be removed from the roadway. White about three feet of snow remain on the level on the east side, it is about gone from Toll Gate to Walla Walla.

Forest service men are at work on the road from Bingham Springs to the forks of the Umatilla river, it is reported here.

GRAHAM BROTHERS NEW G-BOY TRUCK IS WELL RECEIVED

The public's reception of the new Graham Brothers G-Boy one-ton truck, recently announced, fully equalled expectations of Dodge Brothers dealers, judging by the flood of telegrams and letters received by the factory in Detroit, says L. C. Smith, local dealer.

There was much comment on the wide adaptability of the bodies, six complete practical body designs being available.

The equitable distribution of the load was recognized as an important feature. The low hinged chassis permits unusual ease of loading and unloading under all conditions.

In the close inspection of the G-Boy is generally conceded that the designers have left nothing undone for the convenience of the owner and driver. With all the new features embodied in the G-Boy no curtailment of load capacity was made.

The chassis specifications of the G-Boy stand out prominently and caused much comment on the sturdiness and the completeness of the equipment. The gross capacity is 2750 pounds, including cab and body weights. The wheel base is 124 inches with a 56-inch tread, permitting a turning radius of 25 feet. The rear axle gear ratio is 5.1 to 1. Rated maximum speed is 25 miles an hour. The front springs are made from alloy steel, semi-elliptical, 37 inches long, two inches wide, with eight leaves. Rear springs are of alloy steel, semi-elliptical, 44 inches long, 2 1/2 inches wide and containing nine leaves.

Equipment includes improved all steel flat back shroud with standard equipment instrument board; crowned sheet metal fenders, front and rear; full length running boards with splash shields; front bumper; tire carrier, under rear of frame; spare rim; electric horn; two headlights with dimmers; tail light; instrument board light; license brackets; jack; high pressure grease gun; hand tire pump and complete set of tools.

The general verdict of the public, according to dealers, was that the new Graham Brothers G-Boy truck will fill a definite need in commercial transportation, and with the price so low, a decidedly widespread distribution is certain to follow.

MANY MONTHS ARE NEEDED TO PLACE NEW CAR ON MART

Many months are spent in designing and experimental work before an automobile is actually produced in quantity.

The engineering department must plan a model down to the finest detail, and then build a fleet of test cars to be used in proving that the model will stand up in actual use.

Hundreds of thousands of car miles are travelled before any part is considered ready to be put into production. Many changes are usually necessary before the car meets the exacting standards set.

In order to duplicate actual road conditions and to give the car a service test more rigid than they are ever likely to receive in actual use, Buick test cars are daily put through their paces at the General Motors proving grounds near Milford, Michigan.

Here the cars are tested in every conceivable manner for strength, stamina, comfort, roadability and economy of operation. Each of the fifteen or twenty test cars is driven from 300 to 500 miles every twenty-four hours. They are periodically torn down and inspected for signs of wear by Buick engineers.

A speed test in which a fifth wheel and recording apparatus is used, is one of hundreds of tests which determine the qualities of the car.

Keeping the brake lining clean, whether two-wheel or four-wheel, is the best way to keep them equalized. When wheels lock, tests have shown, the condition of the lining is found to be the reason in a large percentage of cases.

If water is found in the crankcase it results from one of three general causes: Water in the gasoline or lubricating oil, a loose cylinder head gasket, a cracked cylinder or sand hole in the cylinder from the water jacket.

CRATER LAKE ATTRACTS MOTORISTS IN OREGON

(Continued from Page Nine.)

Bally and needle-spined Mt. Thielsen just over one's shoulders. There is lake of the Woods midway be-

tween Ashland and Klamath Falls. There is the Oregon Caves south out of Grants Pass, readily accessible, with its wonderful underground marbleized palace, its hospitable chalets. There is the full length of the Rogue river from above Prospect down to the sea, abounding with the steel head of which, Zane Grey and Ben Hur Lampman have written; it is a rushing, roguish river whose low wooded shores seem predestined for campers. The Umpqua offers fine sport, as does the Klamath, and there are a myriad of tributary streams that abound with the small trout, cut-throat, steel head, and the lordly chinook salmon. The entire region is a paradise for sportsmen. A book might be written about the Klamath country

alone, with its great lake, its trout, its pelicans, and its game; there is no leisurely five-four drive anywhere that I personally enjoy more than that from Crater Lake Lodge along the beautiful Klamath shores through a country that still carries the tang of the old West, and across the Green Spring mountain to Ashland. This drive is a part of the famous trip through the park, the Medford-Klamath loop.

Southern Oregon! Picturesque, splendid, and unique. And, please bear in mind, made comfortable and safe to visitors. Some of the best camp grounds on the coast have been developed in this area, offering modern facilities to meet every class of tent or cabin tourist. Hotels, too, have kept pace with demand, some fine new structures

having recently been constructed. In every way Southern Oregon is now well organized to handle the great stream of summer visitors. And even better, the visitor finds a cordial welcome; he finds that everyone whom he encounters has time to render service or to give intelligent and kindly advice. For friendliness is the spirit of the land or Crater lake.—Oregon Business.

Parts -- Storage
LA GRANDE
WRECKING CO.
Adams Ave.

QUALITY RUNNING MATES

A close running-mate of Veltex Gasoline is Veltex Motor Oil—they're a quality pair.

Some motorists start in using Veltex Gasoline and because of its outstanding performance, are attracted to Veltex Motor Oil. Others start in with Motor Oil and are led to take on the Gasoline because of the unusual performance of the oil. One product helps sell the other.

Increase your gasoline mileage, your freedom from carbon and your motoring satisfaction with these quality running-mates.

FLETCHER OIL COMPANY
First Independent in Oregon.



BEAUTY of the type that good taste approves, finds expression in the Studebaker Big Six.

Long, straight lines and graceful curves—colors quiet but exquisite—refinements of finish to delight the most fastidious.

Built to give many years of trouble-free service—the conservative beauty and good taste of the Big Six will be a source of pride as fads and fashions come and go.

—ONLY 7 American cars have greater rated horsepower than the Studebaker Big Six. They list at two to four times its price.

But this initial low cost is only one reason why the Big Six so far outsells its 7 rivals.

Luxurious comfort, exclusive equipment features, low operating costs, A-to-Z dependability, these make Boosters of Big Six Buyers.

Come in and say —
"SHOW ME!"

STUDEBAKER

M. J. Goss

CATERPILLAR For Your Job

It is universally conceded that the "Caterpillar" Tractor furnishes steady, economical power. Have you considered "Caterpillar" for your work? "Caterpillars" earn big profits when properly applied to any job. Fifteen years of experience in this territory enables us to give competent advice in connection with "Caterpillar" uses. Let us show you what "Caterpillars" can do in your work.

Bunting Tractor Company
Dealer "Caterpillar" Tractors
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