HIGH COMPRESSION **GOES TO CHRYSLER**

New York Sun Bestows sales are in the field occupied by Laurels on Zedar for **Excellent Performance**

In any story of how high com-Sun, "for the head of the Chrysler buyers as they would exist sevorganization and its vice-president eral years ahead. in charge of engineering pioneered the way to new fields of motor in many places, as having set an car performance with the Chrys-entirely new standard of design ler high compression engine."

all automobile circles for leading er efficiency.

"Zeder has been living and ing the cars themselves. thinking high compression en-Chrysler, himself a human high compression engine of great power, has never had any greater interest in his business life than the automobile engine, although he has proved himself a genius in the fields of automobile organization, finance and sales. So when Chrysler or Zeder talks high comworld looks and listens just as it does when those high powered Chryslers 'step out' on the road.'

Discussing these new engines. their performance and their disattainment are being enjoyed this metal work. year as the direct result of the The firm will carry a complete combination of high compression line of auto accessories, tires, etc., engines and high compression and handle Westinghouse Air fuels. Chrysler pioneering in Brakes and Splitdorf Spark plugs. his field, we may say, has again The firm known as the Willamresulted in benefits to motorists ette Auto Supply ocmpany, will be

of the touring season, with its mil- made to order to suit the sustomon the highways.

nation and wishes may

"The tourist, in particular, welbenefits of even more flashing ac- forestry exhibit. celeration, more power and Salem should have many engasoline economy. Thousands of sport.

"It must be borne in mind that not all engines, even if apparent- time a few years ago and indeed ly of identical compression ra- was often the means of securing tios, will yield the same perfor- game or protecting ones self from mance. In other words, some-enemies. This sport is being rething more is needed to be able vived in the east, and California to truthfully say, 'This is a 6-to-1 is going far in organizing clubs. compression ratio engine."

"There is a vital distinction between compression ratio and compression pressure. It is entirely tios and find that where one is four tires on the wheels. highly efficient the other delivers much less power and speed simply because of the differences in compression pressure."

Mr. Zeder explains that compresion ratio refers to the relative space occupied by gasoline vapor in the cylinder before and after the piston's stroke has compressed it for explosion by the spark. With a 6-to-1 ratio the gas which fills the cylinder at the beginning of the piston's upward stroke is compressed into a space which is only one-sixth as large at the moment it is actually fired. Compression pressure, on the other hand, has to do with the efficiency of filling the cylinder volume as affected by the valve timing and resistance to the entering

WHIPPET PLANNING FURTHER EYPANSION (Continued from page 5.)

pleted to take care of this produc-

"In the Whippet Four and the new Whippet Six, Willys-Overland occupies a strong price position in the two great fields of quantity output in the industry. Forty-three per cent of all motor car sales are in the light four classification occupied by the Whippet. Our present record volume production is a result of the demand for the Whippet and it is the intention of the company to steadily expand activities in

this four cylinder car field. "The Whippet Six is the lowest priced six cylinder car in the world. It offers many features, as striking in the light six field, as were the features of the Whippet Four in its classification when it was first announced two years ago.

"Among these features are seven-bearing crankshaft, full force feed lubrication, long springs and roomy bodies. Twenty-three per cent of all motor car the Whippet Six, the light six field below \$1,000 in price. In this classification, we will develop along the same lines that we are developing the Whippet Four.

"Both cars were, at the time of their presentation, the result pression engines are revolution of a most careful engineering izing the trend for Amereica's study and sales analysis of the great motoring public the names motor car field as it related to of Walter P. Chrysler and Fred future requirements and both M. Zeder "must stand high and models were planned to anticipate come first", says the New York the requirements of motor car

"The Whippet Four is credited, for four cylinder cars. The same "They are the men", continues type of recognition is now being really revolutionary features of cleaned.

price while we have been better

UP SALES AGENCY

Time to Repair Work. Accessories, Boats

speed, acceleration and hill climb- al repair work of all kinds, body ... ing ability beyond any previous and fender work and all kinds of

extensively engaged in the manu-"We are just at the threshold facture of all kinds of motor boats of the leading models to be built is the popular sea sled which has created quite a sensation among boat enthusiasts. It is very dependable and will not tip readily.

Those interested are asked to comes the high compression en- visit the display of boats at the gine. Generally speaking, he is firm on Cottage and Ferry street traveling over strange roads, and see for themselves just what Many of them are hilly, even is being built here in Salem. One mountainous. With his high com- boat on exhibit, a regulation rowpression engine he enjoys the boat took first prize in the state

torque, greater hill climbing abil- thusiastic boat lovers because of ity, higher speed without strain- the availability of the Willaming the engine, and even more ette river for the enjoyment of the

tests prove that our high com- In addition to the boats, a compression engines deliver from one plete line of archery equipment is to three more miles per gallon of being manufactured which compargasoline. Combined with that es favorably with any made in the saving is the unmistakable thrill United States or on the continent, of power and torque sufficient to Tackles of all kinds are made of conquer almost every hill, plus Osage orange Yew and Ash and the ability to cover measurably are priced from \$3.75 up. One is greater distances in a day's driv- on exhibit which has a pull of 80 ing without increasing one's pounds and another a pull 101 pounds.

> Archery was the leading pas-The same could well be done in

Keep air in your spare tire. possible to design two engines This is almost as important as each with 6-to-1 compression ra- keeping up the pressure in the

> Eighty-two per cent of motor trucks in the country are privatey owned.

SCHEELAR AUTO WRECKING CO.



L. A. Scheelar

Four Stores SALEM

Tires at 341 N. Com'l Auto Parts at 1085 N. Com'l

> SILVERTON TILLAMOOK

Not Best Because the Largest But Largest Because The Best.

STEEL TANKS FOR FORD CARS cess which is being used to test who contemplate a vacation trip exceed \$750,000,000, and local



HE gasoline tank of the new Model A Ford cars is made of steel welded into a single unit. In the photograph is shown a corner in the Fordson factory where tanks are being put through this unique CHEVROLET SNOW BOAT welding process on big "seam-welding" machines.

The gasoline tank is one of the bath where they are thoroughly

the Sun, "who get the credit in accorded the new Whippet Six. | the new Model A Ford car and is | The welding of the two halves tance of 35 miles. In 1928 after having achieved ty and at the same time to in- this latest product of one of the terne plate has been successfully year to year in the Fairbanks dis-

"Expansion programs in the tin to prevent rust and corrosion, ing. It is somewhat similar to and a half dollars. They include gines for years. And Walter two lines are on a similar basis." The steel sheets from which the the chain stitching method of a 15 different makes, ranging in tank is made are from .049 of an sewing machine in sewing cloth. price from \$500 to \$5,000.

> The two halves of the tank are 120 inches long. This welding job business in the Fairbanks district first pressed out into shape in is done completely on one man have organized themselves into huge metal presses and these two chine, the two edges to be welded the Fairbanks. Automobile Dealhalves then go to the assembly being rolled between two electric ers' association. It was this group line which leads to the welding contact rollers which fuse the two of men who promoted the automachines. The opening for the pieces of metal and make them mobile show. There are five augasoline inlet is stamped out of one.

pression he speaks as a recognized authority, and the automobile Pioneer Dealer Will Devote filler flange for the cap is rolled welded it is placed in a testing mechanics are employed. Three into the opening. A steering col- machine where 15 pounds of air is warm-storage garages are mainumn bracket is riveted on the outs forced into it. It is then sealed tained, where cars may be stored side at the bottom of the lower and submerged in a water tank during the long winter season. portion of the tank and these and a careful examination is made mechanics are employed. Three rivets are all treated with tin to detect any air bubbles which Good roads have followed the plate to prevent corrosion. An would indicate a leak. The tank advent of automobiles in Alaska tinct advantages, Mr. Zeder says R. N. MacDonald, pioneer auto ignition cable support also is weld- undergoes two other similar com- and toay there are more than 600 that "the new power plants, by dealer of Salem is quitting the ed to this lower section and baffle pressed air and water tests during miles of excellent thoroughfares utilizing modern high compressales end of the automobile busi- plates are soldered inside to pre- the finishing operations, the last available to motorists of Fairbanks sion fuels, have made possible a ness in order to give his entire atquality of motor car performance tention and devote all the facili- when the car is in use. Then the oline gage has been installed. Other town in the territory. never before realized. Power, ties of his establishment to gener- two tank halves go into a soda But there is still another pro- Motor car owners of the states

of water and placed upon an agi- subject desired by communicating the highway total to upwards of caused chiefly by the trem tator or "shimmy" machine which with the dealers of Fairbanks. \$1.300,000,000. stimulates driving conditions over These men will be glad to supply rate of speed. In some of these service facilities, etc. out developing any leaks of man-land-Pontiac and Chevrolet deal-

were blown up by air pressure gladly care for Buick owners. until they looked like balloons The Chevrolet, through years of and drained.

fectly against the terrific pressure, ical transportation, has become mounted in the car to form the the far north, a country which ofcowl, and it is separated from the fers a meritous proving ground engine by a solid steel dash.

BRAVES ALASKA DRIFTS (Continued from page 5.)

"In the Willys-Knight line, we a striking example of the quality takes just four minutes and is the Since that time the number of the industry to high compression have continued to develop quali- of materials and workmanship in first instance on record in which automebiles has increased from 1927's outstanding engineering crease the dollar value of the car most remarkable industrial organ-welded. The process by which trict, until today there are more feat in building engines of great- and have steadily lowered the izations the world has ever seen. these two shaped pieces of plated than 1,000 cars and trucks in the The tank is made of terne plate, steel are made into one solid, hol- vicinity, representing a total in- ments for construction and mainwhich is sheet steel coated with low piece is known as seam weld- vestment of more than a million

inch to .051 of an inch thick. The weld seam around the tank is Eight automobile dealers, in tomobile garages and repair shops the upper or cowl section and the Immediately after the tank is in Fairbanks, where first-class

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ight Delivery \$375 (Chassis Only) 375

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get handling and fluencing charges

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Revealing in its beautiful Providing the roominess, bodies by Fisher the comfort, style and elegance that women all admire . . . offering the drive, dash and stamina that men demand in an automobile . . . and so easy and safe to handle that every mile at the wheel is a pleasure—the Bigger and Better Chevrolet is bringing a new measure of motoring enjoyment to

comfort and roadability of a 107-inch wheelbase . . . equipped with powerful, non-locking 4-wheel brakes ... and with its worm-andgear steering mechanism fitted with ball bearings throughout-it is everywhere acclaimed the world's most luxurious lowpriced automobile!

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Wm. Predeck, Mt. Angel

QUALITY AT OS

frequent samples of the finished to the pleasant country of Alaska revenues, expendable by county ventures a little further affeld tanks. In this test the tank is and there are hundreds of them, and local authorities, will swell during vacation time. This

last summer several of these tanks were company, Buick dealer will pensive surfaced roads, and 8,000 in driving is extremely important

but the welded seams held per dependable service and econom-When finished, the tank is one of the most popular cars in for the stamina of a motor car.

Alaska is a coming country. It is delightful scenically, wealthy in natural resources and an unexcelled tourist playground.

\$20,000 MILES NOW ON FEDERAL PLAN (Continued from page 5.)

tenance of roads and bridges wil

The A. A. A. points out that de- over the country coupled with the an extremely rough road at a high data on touring, road conditions, tails are not available concerning advancement in automobiles then the work to be done by county selves. A jaunt of 1,500 miltests sample tanks have been ther- Oldsmobile owners should get and local authorities. It is antioughly jounced and joited contin- in touch with Standard Garage cipated that the year's work under vacation leaves plenty of time for uously for four or five weeks with- company. F. B. Johnson. Oak- state supervision will result in the stops en route during this construction of nearly 9,000 miles and age. er is at the service of owners of of hard-surfaced pavements, up-During the experimental stages his ears and the Samson Hard- wards of 12,000 miles of less en

The proper use of hand sign miles of roads adequately graded and many times prevents seriaccidents

Every year the motor-tourist

ous improvement in highway all

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Durant sales in May greatest in Durant history

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- -Oregon sales placed Durant in 3rd position
- -Utah sales GAINED 86% and Durant jumped to 2nd position
- -Washington sales GAINED 50%
- -California sales GAINED 68%
- -Durant was FIRST, or tied for first in 72 California cities and towns
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DURANT STAR \$ 495

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