

COUNTER-BALANCED CRANKSHAFT STOPS VIBRATION TROUBLE

New details of engineering and exclusive features of design in the engine and chassis of the Pontiac Big Six mark Oakland's latest creation as the mechanical aristocrat in the field of low-priced cars, according to Harry W. Brydon, of the Eugene Motor Company.

The most outstanding advantage presented by the new Pontiac is found in the larger engine which develops 87 brake horsepower at 3000 r. p. m., an increase of nine horsepower over the engine of the previous series. Piston displacement has been enlarged from 189 inches to 200 inches, the new bore and stroke being 3 5/16 by 8 7/8 inches against 3 1/4 by 8 3/4 inches in the 1928 Pontiac.

But besides this new reserve of engine power, the Pontiac big six offers many other important new features. Included among them are a new counter-balanced 68-pound crankshaft; Harmonic balancer, new self-energizing four-wheel brakes; heavier rear axle; new transmission, and new Hotchkiss drive.

The engine, while retaining the principle of oversize vital parts as a means of assuring stamina and long life, presents many new advancements in design. In the larger vertical type 1 1/4 inch carburetor are incorporated both an "economizer" which mixes a lean gasoline charge for normal driving speeds and an accelerating pump which functions only when quick pickup is desired. A new and larger three-port manifold distributes the mixture evenly to the engine, while larger intake valves of 1 1/2 inch diameter with lift increased to 5/16 of an inch permit rapid and complete charging of the cylinders. Dampers are present on the valves to prevent valve chatter at high speed and assure uniform efficient valve action at all speed ranges. A new quieting camshaft curve also assists in achieving silent valve action.

The massive new crankshaft is balanced both statically and dynamically. It turns on three large, bronze-backed, babbit-faced, interchangeable bearings. On the forward end of the crankshaft and forming a unit with the fan pulley, is a new harmonic balancer, similar in design to that recently developed for the Oakland All-American six. It has been incorporated in the new Pontiac big six engine to eliminate any possibility of vibration or crankshaft whip which the enlarged power plant might tend to develop.

The highly successful G-M-R high compressor cylinder head in two removable sections has been retained. The new pistons are of semi-steel, with locked 1 1/16 inch piston pins said to be stronger than any car pistons priced below \$1,000. The distributor and the oil pump which circulates 175 gallons of oil at 25 m. p. h. are driven through a spiral camshaft gear with a safety feature which immediately stops the car in the remote event that the pump should fail. Main bearings, connecting rod bearings and timing chain are lubricated by regulated, constant flow pressure oil feed.

The gas filter, fuel pump, thermostat, temperature control and air deflector continue to be standard engine equipment as does also the pressure-actuated type of crankcase ventilator. The cross-flow radiator, an exclusive feature of Oakland's Pontiac six, has been increased to 808 square inches of frontal area in order to take care of the greater heat output of the larger engine.

Several improvements have been engineered into the transmission units. A ten-spline main driving shaft replaces the former six-spline shaft. The Hotchkiss drive principle now is utilized instead of the torque-tube drive. A new design of gear tooth has been adopted which distributes the load over a greater tooth area, reducing both gear wear and gear noise. The front axle is heavier and the rear axle is exactly the same type as that used in the new All-American Six.

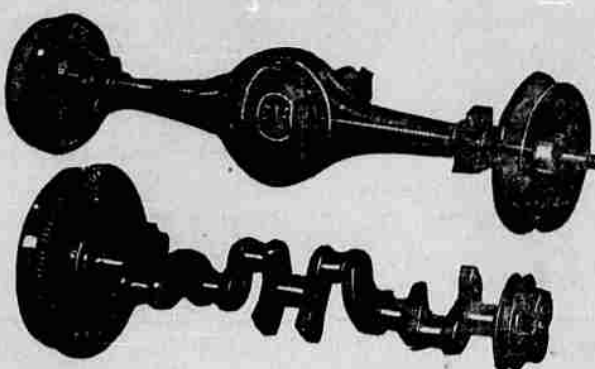
GRAHAM STORY

(CONTINUED FROM PAGE 5)

pared with one here at home, requires more than twice as much capital to do the same volume of business; first, because he has not credit facilities such as are offered by American banks; second, because he must pay cash two or three months before his cars reach him; third, because the cost of an American car has increased approximately one hundred per cent when it arrives at his place of business.

"In France, for example, the duty and luxury tax is 63 per cent of the landed cost of the car, and the list price of a new 1934 Graham-Pontiac model 612, must be approximately \$2,000, as against \$886 here; while an 837 would have to bring more than \$5,000.

New Pontiac Features



Above—A sturdy new rear axle of exactly the same type as used on the current Oakland All-American Six distinguishes the new Pontiac "Big Six". Below—The heavy new Pontiac crankshaft, statically and dynamically balanced and counter-weighted, totals 53 pounds. The counter weights decrease bearing loads and prevent shaft deflection, while the new harmonic balancer attached to the right end of the shaft counteracts twisting or vibration.

Hot Shots

(CONTINUED FROM PAGE 5)

Dunsmuir Monday morning at 7, and arrived in Eugene at 8:50 in the afternoon, Mr. Wiese said. The Wiese Brothers Motor company now have all models including the sport roadster of Whippets on display.

BUICK DEALER GIVES HINTS ON WINTER CARE

"SURPRISINGLY little attention should be given to the winter care of the Buick for winter driving," says F. W. Pettyjohn, local Buick dealer, adding that attention to a few simple points will keep the car in good condition, as follows: The radiator should be cleaned and examined for leaks, the drain-cock should be tightly closed before antifreeze compounds are put in, the fan belt should be tightened, all engine head studs should be tightened after the engine has been thoroughly warmed up, spark plugs should be cleaned, up, spark cables and ignition wire inspected. "The Buick should start easily in cold weather," he concluded, "because of its thermostatically controlled cooling system. The water does not begin to circulate until the engine is warm, and it stops moving as soon as the engine is stopped, thus holding the heat in around the engine parts for a longer period."

CHEVROLET DEALER ATTENDS BIG MEET

THURSDAY, St. Valentine's day, is the date of the annual Chevrolet dealers' meeting in Portland for a business conference with R. H. Grant, vice-president in charge of sales of the Chevrolet Motor company. The Portland gathering is one of a nationwide series, taking place in the 35 leading cities of the country. Zone 19, comprised of Oregon and part of Washington and Idaho, is to be represented in Portland. All problems of the dealer in handling the new Chevrolet are to be taken up and discussed by Mr. Grant and his co-termini of assisting officials. F. S. Gannett, W. L. Tenge, and Joe Spurlock, of the Gannett Motor company, and A. R. Tiffany, cashier of the Bank of Commerce, expect to attend. The business meeting is to be held at 10:30 a. m. in the DuWan theater, followed by a banquet at the Multnomah hotel.

BIG TIME AT COTTAGE GROVE

THE opening Friday night of the Lane Auto company branch office in Cottage Grove, with Paul Blowers, former Eugene Durant salesman, as manager, was featured by a complete exhibit of Durant cars and a popular dance.

SNOWBALLS FLY AT LOST CREEK

DICK KAY and Cecil Dorn, of the Gannett Motor company, accompanied by their wives, were in the first party to reach Lost Creek ranch, up the McKenzie, Sunday. The trip to within three miles of the ranch was made by Chevrolet, the rest of the way being hiked over two feet of snow, which had a hard crust stiff enough to walk or ski on. The report is that, although the tramp in was hard going, it was compensated

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MOTOR TRANSPORT SHOWS PROGRESS

Improved employment in all parts of the world is being created by the growth of motor transportation, in the opinion of George F. Bauer, export secretary of the national automobile chamber of commerce, speaking before the annual banquet of the Overseas Automotive club, according to the report made available today.

"Employment is created for one man by every six cars put into use," said Mr. Bauer. "As a result of the 810,000 motor vehicles of American design bought by countries outside of the United States during the past year, there were created 135,000 jobs in the countries of purchase. This figure is based on experience in the United States where more than 4,000,000 persons are employed in motor transportation in selling, servicing, highway building, and related activities.

"Motor executives are looking forward with confidence to demand for motor transportation in other lands," the speaker stated. "With nearly 7,000,000 cars now registered in other lands, there will soon be an annual replacement market for a million motor vehicles. In addition to the market among new buyers, manufacturers of all countries are uniting to promote conditions favorable to highway travel. Better highways, more equitable taxation, increasing agreement as to traffic regulations, and better financing facilities are among the activities which are adding to the economy and the efficiency of motor travel in other lands."

HUDSON STORY

(CONTINUED FROM PAGE 5)

smoothing out the flow of power as it issues from the engine and is passed, through flywheel, clutch, drive shaft, universal joints, etc., to the rear drive, they have this year contrived to crown their efforts with a device that removes the last remaining tendency to unevenness that might develop in long continued driving, said Mr. Brown.

The new contrivance is incorporated in the cork-studded clutch plate and is, rather aptly, called a "torsion neutralizer." The neutralizer gives the clutch plate a two-unit construction, the two units being made inter-acting through the medium of small spiral springs which not only absorb the shocks of starting and sudden stopping, but in addition smooth out such torsional or power impulses, ordinarily communicated to the transmission and final drive.

Cars Imported
More than one third of all the American automobiles imported into England were Essex Super-Sixes and Hudson-Exess cars combined. All other American cars imported into Europe, according to the official figures for 1928, received here by the Brown Motor company.

"That we were able to establish such a record is a tribute to the ability of the American manufacturer to meet European standards of excellence and offer price advantages that could only be obtained by large production methods and the purchases of the other."

ARISTOCRAT OF FORD LINE ON EXHIBIT

LINCOLN's birthday was the occasion for the placing on exhibit Tuesday in the E. C. Simmons Motor company showroom of a special custom built two passenger Lincoln coupe, an exact reproduction of the car of that model shown in the auto shows at New York and Chicago. The car is a present for a Eugene lady.

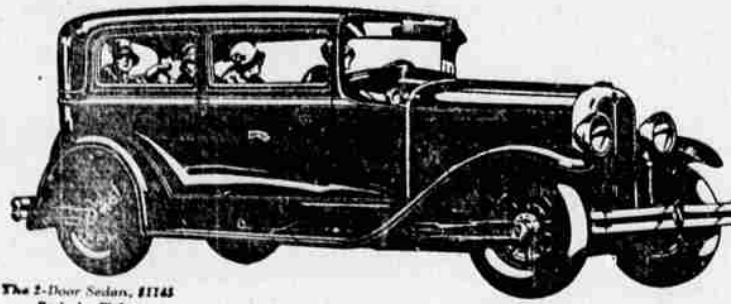
SHIPMENT OF PLANES EXPECTED SOON

A FOUR plane carload of three-passenger open Triumfs. Airbikes planes is expected next week by Hoh Airways. A six-passenger, enclosed monoplane is to arrive here about the 10th of March.

GLADEST WORDS OF TONGUE OR PEN

THE best news of 1929 so far is that Mrs. Ray O'Donnell came home Tuesday, according to Ray. Mrs. O'Donnell has been visiting in the east for the past three months.

THE MOST SURPRISING THING ABOUT IT IS THE Price



The 2-Door Sedan, \$1145 Body by Fisher

All America is being captivated by the New Oakland All-American. By its vivid new style and voguish new beauty. By its surging power . . . its flanking pick-up and speed . . . its impressive quality.

Prices \$1145 to \$1375, f. o. b. factory, plus delivery charges. Louie's Hydraulic Shock Absorbers and spring covers in list prices. Bumpers and rear fender guards extra. Check Oakland delivered prices—they include lowest handling charges. General Motors Time Payment Plan available at minimum rate.

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A NEW
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PRODUCT OF GENERAL MOTORS

ing advantages which huge resources bring about," said J. S. Draper, export trade manager for Hudson.

New Motor Boats Launched Sunday

Launching of the largest and most powerful river boat to be built here for some time occurred Sunday afternoon, when M. M. Yimmon and C. R. Lowry, of Motor Boat Co., slid their "Daradon" into the muddy waters of the Willamette at the Eugene Motor Boat club landing, as a small crowd of motorboat enthusiasts and high school students looked on.

The launch is 18 by 5 feet, with 18 inch draft. It carries four passengers, and is powered by a 45 horse power automobile engine, with regular automobile control in the cockpit. It was built by manual training students at Eugene High school, under the instruction of Martin Johnson, after the design of C. O. Medwid, a nationally known machine architect. The name "Daradon" is a combination of the first letters of the names of Mr. Edmundo's son and Mr. Lowry's son.

Glen Ohlsen of Ohlsen Service station, also launched his new "step hydroplane" outboard craft, which he built himself.

Reo Agency to be Opened in Eugene

A new Reo agency for the Eugene district was announced Wednesday by Clyde O'Neal, formerly of the Packard garage, who with his partner Craig Redman, of Portland, will operate the new agency. Mr. O'Neal left for Portland Wednesday to confer with Mr. Redman and to arrange plans for the obtaining of the Reo franchise for this territory.

The new agency will be located at 55 west Tenth street, it was announced. The building has been leased by the new firm.

UNUSUAL SALE

A used car sale of unusual character is being staged at the Eugene Motor Company Saturday. At various times of the day, various cars will be offered for sale. One small car in going for \$5. Another is to be sold later in the day for \$10, and another, a half hour later, for \$15. Other cars at higher prices are also offered.

400 EVERY TWO HOURS
According to automobile factory standards of 1900, the production of 400 units a month was considered a

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high average. At present the Oakland-Pontiac plants are capable of producing that number in two hours.

HUMAN CARRIAGE CHEAP
Human "dray horses," so called because of the great loads they carry, can be hired in Calcutta for ten cents a day, says a report. Human carriage consequently is competition for motor vehicles in India.

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If any "Western Auto" Battery develops trouble due to defects in materials or workmanship, within the guarantee period, we will repair or replace it on a service basis.

This guarantee is backed up by every one of our more than 150 conveniently located stores throughout the West, and by our well-known CUSTOMER IS ALWAYS RIGHT policy!

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tion gives 20% to 30% MORE POWER . . . Separators (4) are of high grade specially treated white cedar, reinforced with perforated rubber veneer, assuring longer life and perfect insulation . . . Terminal Posts, top and bottom (5 and 6), are scientifically designed and of proper size for easier current flow . . . Cell Connectors (7) are solidly fastened and carry current with least resistance.

Better All-Around Performance

Because of these superior structural features, together with skilled workmanship, expert supervision, and rigid tests and inspections, Western Giant Super-Power Batteries give you longer life and EXTRA POWER, which means instant starting; hotter, faster sparks; complete combustion with less carbon, and faster recharging by your generator.

Low Prices Because of Our Huge Volume

Our tremendous sales volume . . . our economical "150 store" distribution, and our "One Low Profit" selling policy, make it possible for "Western Auto" to offer you these rugged 2 1/2 year Guaranteed Western Giant Super-Power Batteries for less than you'd pay elsewhere for the ordinary standard kind.

Deduct Trade-In Allowance From These Low Prices

H 6-11 Western Giant, Guaranteed 2 1/2 years . . . \$11.95
H 6-13 Western Giant, Guaranteed 2 1/2 years . . . \$13.45
H 12-7 (12-volt) Western Giant, Guaranteed 2 1/2 years . . . \$16.95

Guaranteed 2 Years

(Warrant special 2 Year Deduct Trade-In Allowance from These Low Prices!)



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The same one-piece rubber case Wizard Batteries that give you giving satisfactory service and economy to many thousands of motorists throughout the West. Our Two-year Guarantee is backed by our famous "150 Store Service" and our "One Low Profit" policy, and our Trade-In Allowance makes these New Low Prices even lower!

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