ALL-WEATHER CAR IS THE FRANKLIN

New York Man Drove Machine Through a Snowstorm.

AVERAGE 40 AN HOUR

No Adjustments Necessary on 532 Mile Run in 13 Hour Trip.

Driving a Franklin touring car through six inches of snow for 150 miles, battling against a blinding snowstorm for 50 miles more and finishing the last 150 miles in a heavy rain, Harry G. Thomas set a new record for endurance runs recently when he arrived in Rochester, N. Y., from Geneva, having covered 532 miles in 13 hours and nine minutes, at an average speed of 40.45 miles an hour.

No better test of the car's ability to travel over slippery roads under severe weather conditions could be imagined. When the start was made from Rochester at midnight, the thermometer registered 28 degrees above zero. Through the open windshield could be seen the hooded and bedoggled figures of J. F. Herbert, Donald H. Craigie, observers, and Kenneth R. Smith, passenger. From the starting point, the car traveled to Buffalo and Syracuse. Twenty-five miles from the second objective six inches of snow were encountered and continued for 100 miles, of which 50 were covered in a blinding snowstorm. Nothing daunted, the driver pushed on, running into a severe rainstorm in the 150-mile drive from Utica to Rochester. For 50 miles a dense fog confined vision to within 40 feet of the hood.

Exceptional speed average was maintained, the 306 miles from Rochester to Watertown being covered at a rate of 43 miles an hour, while the 287 miles to Utica were made at an average speed of 41.1 miles per hour. The highest average was 47 miles, covered in the first hour after leaving Syracuse.

During the entire run not an adjustment of any kind was made. The Goodyear cord tires all around gave splendid traction in the slippery going and no tire trouble was experienced. In fact no extra tires or tubes were carried and no chains used, justifying the confidence placed in the pneumatics.

While no record of gasoline consumption was kept during the first 200 miles, the car averaged 18 miles per gallon of gasoline.

DUAL VALVE PRAISED

Writer in British Paper Declares Pierce-Arrow Performance Most Wonderful.

Honest approval of the famous Dual Valve Six models produced by the Pierce-Arrow Motor Car company of Buffalo, N. Y., is given by a critic writing in the November 4 issue of the London Times under the heading of "New American Motor Cars." Because of the pride taken by the British in their own quality automobiles, the opinion is of unusual interest.

The critic says:

"The Pierce-Arrow is familiar by name to most people at home as one of America's best known productions. It is essentially a car in which all considerations of price, within reasonable limits, have been submerged in favor of luxury of appointments and perfections of running.

"The six-cylinder engine has a double valve system, two inlet and two exhaust valves being set on opposite sides. A conservative and unusual feature is the three-pair casting. Two separate systems of battery ignition are fitted, the magneto having been abandoned. The gearbox provides four forward speeds instead of the usual three.

"The car is exceptionally well sprung and well balanced. Several sharp corners were purposely taken at high speeds, and at each stability was very noticeable. Weight distribution has been carefully studied. Acceleration, hill climbing and flexibility were alike excellent in the Pierce-Arrow. The Pierce-Arrow shows high quality in its class and its performance is commensurate.

"The performance of the dual valved engine, with its increased power and flexibility, recently has been refined by the introduction of a dual ignition system. Another improvement is in the transmission which permits of easier gear shifting."

MAXWELL IN MOVIIES

Columbia River and Western Wonder Places Filmed for Great Cinema Story.

The scenic grandeur of the Columbia river highway, of Crater lake, and of British Columbia will be revealed and their history related to the movie fans of Tulsa by Leland J. Burrud in his new film serial "Legends of the Wilderness." A Maxwell truck and a Maxwell five-passenger touring car are carrying Burrud through this western wonderland and will play prominent roles in each of the pictures, according to Lee South of the South Motor company.

The Burrud party travels in the two Maxwell cars, one equipped as a homecraft camper and the other fitted with kitchen, dark room and facilities for carrying supplies. The company sleeps in the open, never being established always convenient to the work and away.

As the present time the company, together with a work on the Columbia river from Astoria to The Dalles, Oregon, there he will go to the Deschutes country, filming the various sport, and also getting some pictures of Indian life. Burrud is producing a series of views of Oregon mountain and river scenery for publication in "The Sunset magazine." He says, in addition are being also taken by a Los Angeles firm, and are expected to be ready for exhibition soon.

Statistical Side of Auto Industry Very Remarkable Indeed

Some figures. Automobiles sold in this country by [illegible] dealers (not including [illegible]) nearly [illegible] last year. Average age of these cars [illegible] years. Average miles each actually runs annual number of passengers carried. Three per machine [illegible] 600, which is larger [illegible] in excess of that required for the entire railway system, and reliable factories also turning out motor trucks. Assuming capital of these, $720,000,000, gross sales $[illegible] 000,000, employes [illegible] capital of makers of accessories, bodies and tires $[illegible], tire manufacturing capital, $[illegible], sales area of tires [illegible] of these [illegible] $[illegible] billion [illegible] $[illegible] billion. Add the sales of the figures [illegible] and automobiles per year will be produced during several years to come.

ABSORBING SHOCK ON AUTO TRUCKS

Service Engineer Tells How Cushions Take Up Heavy Strain.

By Charles Clements, Chief Engineer Service Motor Truck Co.

One of the features of service construction, which has a very great effect in increasing the life of the truck is the use of the rubber and fabric universal joints between the engine and transmission.

Every time the clutch is engaged a tremendous shock is transmitted from the engine to the wheels. The engine is probably running at 800 or 900 revolutions per minute and then with the truck stationary, the clutch is dropped in and the truck, weighing several tons, must be started in spite of an enormous inertia. That brings a terrific stress on all the driving parts in the transmission, universal joints, rear axle and wheels. In the service construction, however, the propeller shaft between the engine and the transmission is fitted with those rubber and fabric discs, which because of their construction, absorb the worst of the shock.

In fact, every time an engine passes the explosion stroke the shock is transmitted all through the mechanism if not absorbed by some proper cushioning method. The Service Motor Truck company has been using this rubber and fabric universal joint disc between the engine and the transmission for several years, and to the best of our knowledge without a single case of replacement.

The amount of flexibility that is contained in this joint can be demonstrated by driving the front end of a loaded Service truck against a post or wall, engaging low gear, speeding up the engine and then dropping in the clutch just enough to absorb the engine power.

By removing the foot board you will seen that these discs yield several degrees under such a test and that they always return to their [illegible] position.

This cushioning ability has a very material influence on the entire [illegible] effect in lengthening the life of transmission parts, rear axle and wheels, as well as other parts. Rear axle and wheels have the further advantage [illegible] bearing feature.

After 12 years of consideration work soon will begin on an enormous hydroelectric plant that will utilize the power of the Victoria falls in South Africa.

Opossums are raised for their fur on some farms in Australia.

universal usefulness

Nowadays many tire makers are urging motorists to use non-skids on rear wheels and smooth-treads or "driving" tires on front wheels.

This is necessary because the sharp projections on some non-skids make steering difficult. Not so with the Michelin Universal. Its tread is so broad and flat, it steers as easily as a smooth tread.

Use Michelin Universals *all around*. You will thus secure protection against the dangerous front skid as well as against the rear skid; and at the same time you will avoid the necessity of carrying two kinds of spares.

Remember that Michelins are unsurpassed for durability though moderate in price.

Tulsa Rubber & Vulcanizing Co.
Fifth at Boulder Free Road Service
Phones Osage 1722; Cedar 1722-600

MICHELIN

Milburn
LIGHT ELECTRIC

$2675 F. O. B. TULSA

Many Homes Were Made Happy Christmas Morning

—By the delivery of a number of Milburn Electrics purchased for gifts to be presented that day.

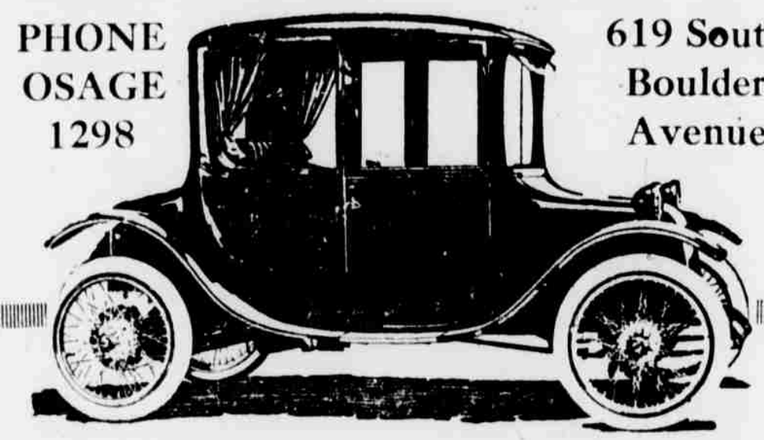
We have a limited number of these fine Electrics that are available for January first delivery, if ordered at once.

Start the New Year with a Milburn Electric and make your family happy 365 days.

Bottom Brothers Motor Co.

PHONE OSAGE 1298

619 South Boulder Avenue



THE CAR THAT MADE STUTZ GOOD IN A DAY

What Does *Power* *Sturdiness* *and Ease* *MEAN?*

WEBSTER SAYS:

Power Means—"That from which useful mechanical energy is derived."

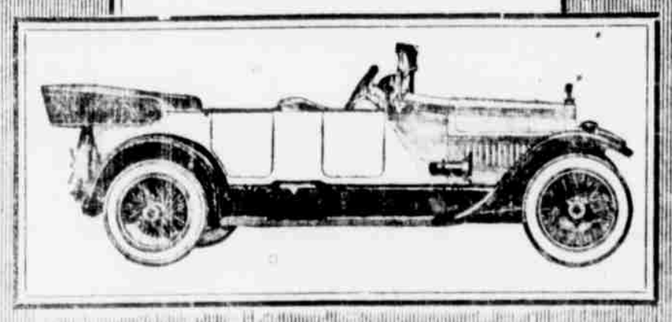
Sturdiness—"Firm, stout and strong."

Ease—"Free from labor or effort."

"ASK ALL STUTZ OWNERS"

Federal Motor Co.

615-17-19 South Boulder Ave.
Phone Osage 7942



The W. C. Norris Motor Sales Co.

Wishes

A PROSPEROUS, HAPPY NEW YEAR TO ALL PRESENT AND PROSPECTIVE PATRONS.

The Company also wishes to assure the same courteous treatment —even better daily service. The Marmon, Jordan, Liberty Cars, and Gary Trucks will continue to be our offering to the citizens of Oklahoma for the ensuing year.

We again thank one and all for their patronage, and will endeavor to merit the same measure of success in 1920 as has been our lot in the twelve months just past.

W. C. Norris Motor Sales Co.

DISTRIBUTORS

701–703 South Main St. TULSA, OKLA.

815–17 North Broadway OKLAHOMA CITY

PHONE OSAGE 5300