

AUTOMOBILE FIRES CAUSED BY NEGLIGENCE

Lean Mixture Most Frequent Source of Motor Blaze.

VIGILANCE IS IMPORTANT

Electric and All Other Troubles Declared Warning That Never Should Be Overlooked.

Occasionally an automobile takes fire through backfiring in the carburetor and becomes a total loss before the owner is able to discern the cause. All he can say is that he heard a pop back at the carburetor and suddenly discovered his car on fire. The most frequent cause is a lean mixture. This means more air in the mixture than usual. The carburetor gets out of adjustment in some way and the mischief is done. A lean mixture is slow burning. It burns all during the power stroke, all during the exhaust stroke, and it is still burning when the inlet valve opens, admitting the fresh mixture. This takes fire and the flames run back to the carburetor. If there is any gasoline dripping from the carburetor, a heavy vapor is formed, extending under the engine, where it is held by the mud pan. The flame spreads under the engine and soon reaches the tank, melting the connections and releasing a flood of gasoline.

Lean Mixture Important. Lean mixture may be due to derangement of the carburetor or a leaky inlet manifold. The manifold too far closed, auxiliary air valve spring too weak or valve stuck open, or clogged fuel line, are a few carburetor causes. A leaky manifold may be detected by running the engine and injecting oil around the joints. Oil will be sucked in at the leak where the bolts are tightened or a new gasket installed in place of the leaky one.

Now come troubles of the inlet valve, which indeed are very rare. The valve lifter may be out of adjustment, leaving no clearance, or actually pushing the valve off its seat. If there is little or no clearance the valve will hold compression when the engine is cold, but will leak when the engine warms up, due to expansion of valve stems, and, of course, popping in the carburetor occurs in two thicknesses. Occasionally this valve may become stuck, so that it cannot close. This may be seen from the outside, as there will be an unequal large space between the valve stem and the lifter.

Electric Troubles Considered. Electric troubles now engage the attention. With a single coil and distributor system such as used on the majority of cars, there would be some distributor trouble or a short circuit of the distributor wires. See that all wires are properly insulated and wipe all dust from distributor head. If you know how to open the distributor you should wipe out the inside occasionally with a brush dipped in gasoline. This will remove all accumulations of dust, which will cause short circuit if allowed to remain.

On a well-known small car the trouble is caused by short circuits on the timer wires. These are against the side of the distributor. Clean the sides of the engine, wearing away the insulation and so causing trouble. Clean the spark plug wires, or run engine on magneto, and advance and retard the spark, watching the commutator and wires. If sparks are seen at the plug, as indicated, which may easily be stopped by tire tape.

Fires Not So Frequent. Fortunately, cars do not burn as frequently now as they used to, probably because the flame is led away from the carburetor by the hot air pipe leading from the hot air stove on the exhaust manifold. But don't think your car is safe on that account. There are leaks in these pipes and there is an adjustment with large hole to let in air when necessary.

So watch out for popping in the carburetor and determine its cause immediately. Here as elsewhere "eternal vigilance is the price of safety."

SERVICE STATIONS AID BUICK

Assistance of Standard Oil Valuable in Making Record Run. Mrs. Kathleen Ayres is a great booster for gasoline service stations. Mrs. Ayres is the woman who recently broke the former Portland record by piloting her four-cylinder Buick coupe between these cities in 22 hours and 43 minutes. Her time cut down the best previous motor car record by 3 hours and 15 minutes and bested the Southern Pacific's crack train, "The Shasta," by 8 hours and 47 minutes.

AUTOISTS DRIVE FROM EAST

Party From Wisconsin Arrives at Canby, Or. CANBY, Or., May 20.—(Special.)—Mr. and Mrs. J. E. Browne and son, LeRoy, accompanied by H. L. Hume of Portage, Wis., arrived in Canby tonight, after a most enjoyable motoring trip in the first automobile that has come over the Blue mountains under its own power this season.

In several places there were from three to four feet of snow, but the auto, in which the party made the trip, plowed through, and stalled only for about two hours. It was "up to" Browne and his companion, H. L. Hume, to dig away the snow.

Although 3000 miles were covered since leaving Wisconsin, only one blow out occurred, this being at Jewelsburg, Col., and one puncture, which occurred in Oregon, and was caused from a small pebble.

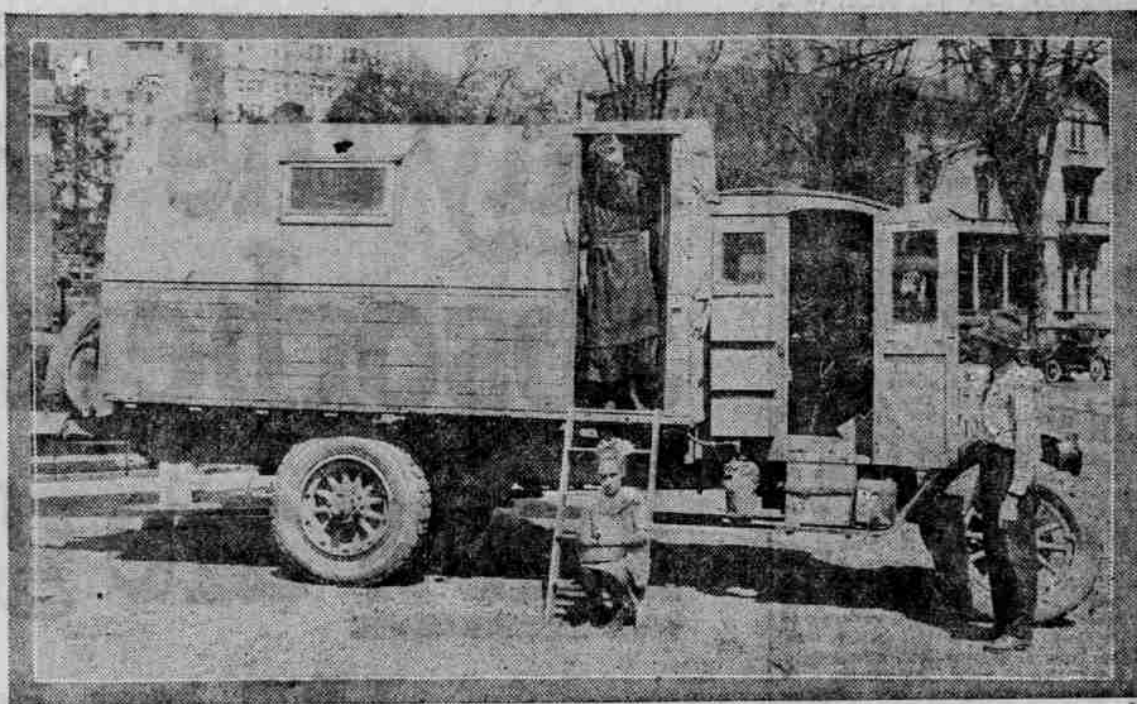
The party has been on the road for three weeks, but visited many interesting places while en route.

Repairing Water Pipes.

A satisfactory temporary repair of a leaking water pipe may be made by binding around several layers of string well soaked in thick oil.

Always keep to the right of the center of the street and near the curb.

SOUTH DAKOTA PEOPLE TRAVEL IN REAL HOUSE ON WHEELS.



UNUSUAL MOTORING EQUIPMENT BUILT ON G. M. C. TRUCK CHASSIS IN WHICH TRAVELERS REACHED PORTLAND LAST WEEK.

W. E. Tittle of Rapid City, S. D., believes that after three years of steady work for himself and his truck both are in need of a vacation. That explains why, when the three-year period was up last summer Mr. Tittle took the body off his truck and put on a regular house and set out with his wife and little daughter to see the country. The family visited Wyoming, Nevada, and Utah, traveling in leisurely fashion, and reached California in late fall, where they wintered. This spring they came up through California to Oregon, reaching Portland a few days ago. They expect to visit other parts of the northwest and then to return to North Dakota over the northern route and put the truck chassis back to work at its former task, that of hauling lumber from a lumber mill over some 18 miles of rough road to the railroad.

SEASON BIG AT RAINIER

THIS SUMMER IS EXPECTED TO BE BEST YET.

G. C. Dickens, Assistant Manager of Park Company, Visits City and Tells Plans.

Rainier national park will be in a better position to care for visitors this summer than ever before in the history of the park, and the greatest season which that beautiful region has ever enjoyed is expected, according to G. C. Dickens, assistant to the general manager of the Rainier National Park company, who was a Portland visitor last week. Mr. Dickens visited this city in connection with the proposed sportsmen's and tourists' exhibit to be held here during the Rose Festival, and to arrange for the participation of the Rainier organization in that event.

Roads this year to the park will be considerably better than ever before, Mr. Dickens said. The road will be found paved from Tacoma as far as La Grande, while from that point to the park entrance the grading has been completed and most of the road will be in good shape with macadam or rock surface. Additional road work will be done this year, but it is not expected to interfere with traffic.

Work is also progressing rapidly on improvement of the road inside the national park, he said. The new road from Nisqually glacier to Paradise falls, known as the Nisqually cut-off, was completed late last year and this will give two-way traffic all the way to Paradise, cars going one way over the new route and the other way over the old road around Ricketts point. Work of widening the road from Paradise falls up to Paradise Inn will be carried forward this summer and within another year it is expected a road wide enough for two-way traffic will be completed between these two points.

Washington was of course well in the lead in the number of cars and people at the park, but Oregon was second with a representative number, he said. Oregon's record was 600 cars and 2158 people, while California was a close third with 491 cars and 2718 people.

Longmire springs will open its season this year on June 15, while Paradise Inn will open on July 1. Five feet less snow is reported in Paradise valley this year than at this time last year.

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OLD-TIME AUTO SALESMAN JOINS BRALY STAFF.

Appointment of G. R. Murch on the sales force of the Braly Auto company, Franklin distributors, was announced last week by L. Therkelsen, sales manager. Mr. Murch is well qualified to rank among the old-timers in the business in Portland, as he has been in the automobile retail field for more than 14 years. He served his apprenticeship in automobile selling in Los Angeles, where he was employed for three and one-half years, and then spent three years in Spokane. For the last eight years he has been in the city, during which time he has been sales manager for the Moon car, territory man and used-car sales manager for the Portland Motor Car company and manager of the used car department for the William L. Hughton company.

Mr. Murch's activity in the automobile field was only broken into during the time while he was in the service during the war, being a sergeant in the tank corps.

RADIO RECEIVED BY AUTO

PASSENGERS ENJOY CONCERTS WHILE MAKING TOUR.

Seattle Service Enjoyed as Far South as Del Monte, Cal., and Station Easily Heard.

DEL MONTE, Cal., May 20.—For the first time in the history of this city a radio phone broadcast from Seattle has been picked up by a wireless receiving set rigged on an automobile in this section while the car was in motion.

The machine, driven by David Keith, prominent in business and social circles of Salt Lake City, Utah, rolled along the scenic 17-mile drive along the beach, and at the same time kept continuous contact with radio phone messages from San Francisco, Los Angeles and from as far north as Portland and Seattle.

Though the noise of the engine and the breakers along the beach had been expected to drown out the music and news messages, the Seattle broadcast was heard with surprising distinctness.

The Keith party stated that they had dispelled the monotony of travel across the desert and along the California highways by listening to radio concerts and messages picked up en route.

To receive other concerts and messages in a motor car under way was enough and adequate enough for every user's needs, is the most vital factor in the successful operation of truck equipment.

"We are, therefore, extending the scope of Republic service by spotting the country with service dealers, in addition to our already established factory branch houses, distributors and associate dealers.

Our aim is to so thoroughly cover the country that Republic trucks in every section can be serviced in the shortest time and at the lowest cost to the user.

AUTO CAMP VALUABLE ASSET

Chambers of Commerce Report Camps Have Paid Real Return.

WATERLOO, Ia., May 20.—One of the moot questions in many cities and towns is, do camping grounds for automobile tourists benefit the city and is money expended in providing comforts for tourists well expended? The United States touring information bureau, Waterloo, Ia., set out to find the answer, and the following extracts from letters received from chambers of commerce and motoring publications tell the story:

The chamber of commerce of North Platte, Neb., says: "Last year 4985 cars night-parked at the camping ground and in addition many parked for a few hours during the day. No charge is made, except in event the tourists want to stay six days or longer, when a small fee is collected. The camp is located within a few blocks of stores, bathing beach and amusements. It is a valuable asset to the town and the money is well invested. It is considered by merchants as a real business-getter. Eighty per cent of the tourists received from the chambers of commerce and motoring publications tell the story:

From Clinton, Ia., comes the following: "Free public camping ground catered to 100 campers in a few weeks. Business men of the town consider campers expended from \$5000 to \$6000 in grocery stores, ice cream parlors, moving picture houses, telephone offices, oil stations, fruit stores, drygoods houses and garages. The community in general feels that the grounds are a valuable asset to the city and that without the grounds few tourists would stop overnight."

A letter from Denver, Colo., reads: "Systematic cultivation of the tourist crop began in Denver six years ago, when the newly organized tourist bureau engaged H. N. Burbans to nurse the stand and increase the yield. As a result of these efforts the number of visitors grew from 25,000 in 1915 to 265,000 in 1921, a greater number in the aggregate than all visitors in Yosemite, Yellowstone and Glacier national parks during the same year."

ROAD OVERLOOKS FRISCO

Private Interests Constructing Highway Up Mount Tamalpais.

SAN FRANCISCO, May 20.—Private interests are now building a road to the summit of Mount Tamalpais, in Marin county, which promises to be one of the most scenic roads in the west.

This road will provide easy grades to the summit of the famous peak. The new road starts at Fairfax and winds through the hills, using the Alping dam, up Ridgecrest and West peak, clear to the summit of Mount Tamalpais.

The road goes along the ridge of Bolinas range and the motorists can see both sides of the valley from the top.

There will be a wonderful view of mountain, valley and sea from the road, it is said. From the summit the ocean can be seen at the west. In the foreground is Mill Valley, and the whole country spreads out like a relief map before the eyes. To the south can be seen the eastbay cities and on the other side is San Francisco and the peninsula cities.

BETTER NUMBERING DESIRED

Insurance Companies Would Reduce Rates if Method Is Found.

NEW YORK, May 20.—Upon the recommendation of the insurance committee of the National Automobile Chamber of Commerce, the directors have urged the Society of Automotive Engineers to further their effort in developing a method of numbering engines and frames so that thieves will find it difficult to change the numbers without detection.

Insurance underwriters have held open for some time an offer of 7 1/2 per cent reduction in theft rates on cars with engines numbered in this way, 7 1/2 per cent for frames and 20 per cent if both engines and frames bear approved numbers. The underwriters conference now has voted to renew this offer until January 1, 1923, but if something is not developed and agreed upon by that time the offer will be withdrawn.

All suggestions made thus far have been proved unsatisfactory by the underwriters' laboratories, which succeeded in changing the numbers in a way that defies detection.

REPUBLIC TRUCK CO. PREPARES TO CARE FOR OWNERS EVERYWHERE.

ALMA, Mich., May 20.—In keeping with the policy of maintaining Republic motor trucks in an unimpaired performance, is the statement made today by Colonel Frank E. Smith, president and general manager of the Republic Truck Sales corporation.

"The organization of many new Republic service stations throughout the country, is one of the most important steps we have taken to insure the continuously profitable employment of our operators," said Smith.

"We recognize that service prompt enough and adequate enough for every user's needs, is the most vital factor in the successful operation of truck equipment.

"We are, therefore, extending the scope of Republic service by spotting the country with service dealers, in addition to our already established factory branch houses, distributors and associate dealers.

Our aim is to so thoroughly cover the country that Republic trucks in every section can be serviced in the shortest time and at the lowest cost to the user.

FEDERAL

Announces the Opening of a

Distributing Warehouse

In Portland

Of special interest to our agency trade in this territory is the announcement of the opening of a FEDERAL Distributing Warehouse in Portland, Oregon.

The phenomenal increase of FEDERAL tire business in the territory covered by our San Francisco Warehouse has made necessary the establishment of this additional distributing center to provide for the greater convenience and better service to our trade in this district.

Located at 428 Flanders Street, the Portland Warehouse will carry a complete stock of FEDERAL Casings, Tubes, Accessories, etc., for the accommodation of our wholesale trade.

We feel sure that our trade will appreciate the decided advantage of this important extension of FEDERAL facilities which makes possible more prompt and satisfactory service.

The Federal Rubber Company

OF ILLINOIS

FACTORIES: PORTLAND WAREHOUSE
Cudahy, Wisconsin 428 Flanders Street

Ford Owners—

Why Put Up with a Troublesome Timer?

The new Triple-Life Eliminates the Old Annoyances and Frequent Replacement

The new Triple-Life Timer is a mechanical masterpiece—a wonderful improvement over other timers. It is as efficient and dependable as the distributor of a high-priced car, yet it costs only \$3.75.

Ask your garageman or dealer about the Triple-Life. HE knows what a great improvement it is! HE knows that it will make your Ford engine run far smoother and with more power!

The Triple-Life Makes Easy Starting
One turn of the hand crank and "she kicks over" with a will in even the coldest weather.

Reversible Brushes and Rotor
Can't Short or Arc
No Oiling Perfect Timing

All First Class Garages and Dealers
Sell and Recommend

THE TRIPLE-LIFE TIMER

FOR FORDS AND FORDSONS
And It's Backed by a Real GUARANTEE
MAPSON MFG. CO., Los Angeles, Cal.

High Gravity plus high viscosity

High gravity indicates small molecular construction of the oil, insuring less liquid friction, more rapid moving oil and instant lubrication of all surfaces as soon as the motor starts to turn over. High gravity of itself is not an assurance of lubricating value, but high gravity combined with high viscosity (under heat) is the mark of the quality lubricant.

HAVIS

is a high gravity, high viscosity, motor oil. It feeds freely and quickly at low temperatures, to the innermost bearing points and it holds its lubrication body (viscosity) under intense heat—thereby providing a better oil seal between the piston rings and cylinder walls and reducing friction wear.

BAUME HYDROMETER FOR DETERMINING OIL GRAVITY

WIGGINS COMPANY, INC.
Refinery Distributors
Portland, Oregon

The PENNSYLVANIA MOTOR OIL

GUARANTEED SPECIFICATIONS