

CAR ANTI-FREEZE HINTS ARE GIVEN

Glycerine or Alcohol? — NEA Science Editor Writes on Both

By ISRAEL KLEIN (Science Editor, NEA Service)
Anti-freeze to use in the cooling system depends on the climate as well as the extent to which the automobile is driven.

The minimum to which the percentage of anti-freeze shown may used with safety. Below that temperature the amount of anti-freeze has to be increased in proportion to water used.

For instance, if the expected low temperature will be 20 degrees above zero at any period, and alcohol is to be used, 15 per cent of the cooling solution, or about one-fifth, should be alcohol and the rest water.

If glycerine is to be used, the lowest possible temperature for the entire winter can be considered at the very beginning. If that is ten degrees below zero, the amount of glycerine needed would be 47 per cent, or almost one-half the capacity of the cooling system, with the rest water.

The instruction book that goes with each automobile gives the capacity of its cooling system, from which the right amounts of water and anti-freeze may be calculated.

If the instruction book is lost, any dealer or garage man can give the information. If glycerine is used the mixture in the cooling system should not come within six inches of the top of the overflow pipe in the radiator.

Where the average cold spell is short and not too severe, however, glycerine is the best anti-freeze to use. In this case, there isn't the danger that comes with the use of alcohol when a sudden cold snaps hits the locality or when the cold changes suddenly to warmer weather.

Whatever the weather, the glycerine remains in the car, ready for the next cold period.

The following table, based on U. S. bureau of standards tests, tells what proportion of anti-freeze to use with water, for the degree of temperature expected at any locality or at any time of the winter:

Table with 4 columns: Degrees Fahrenheit, Alcohol, Per cent, Alcohol. Rows show temperature ranges from 20 to -20.

The alcohol here considered is the denatured variety and the glycerine is the pure, distilled chemical that is now being prepared in several commercial forms for radiator use.

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A NEW FORD COMES TO CONGRESS



When Senator James Connors, former business partner of Henry Ford, ordered one of the new Fords, he was given one—the thirty-fifth turned out at Detroit. You see him here in front of the capitol at Washington receiving the machine from Warren G. Eynon, Ford Washington manager.

WHIPPET ENTERS LOW PRICE FIELD

New and Improved Car to Be Introduced to Nation on Jan. 6, Willys Says

TOLEDO, Ohio, Dec. 31 (Special)—Important developments in the low priced field were predicted this week by John N. Willys, president of the Willys-Overland, Inc., in a statement in which he said, "there can be no monopoly in the light car class."

At the same time he announced that the Whippet, the original European type light car introduced 19 months ago, would be shown at all dealers on Jan. 6, with improved body and added equipment.

Mr. Willys said that production economy of a kind not to be exceeded by any other manufacturer had been worked out by Willys-Overland.

A new body building plant and a new forge shop completed this year and now in operation, have effected marked savings.

He also said that the service costs of the Whippet for the past 19 months had been so low that the list price on the car need not include heavy allowances for service and replacements.

Production capacity on the Whippet at the Willys-Overland plant will now permit a daily output of 1,000. With facilities already under way to increase this figure, the improved Whippet at the new price will be introduced simultaneously in all parts of the country.

Several Records During the 19 months in which this car has been in volume production, it has established numerous performance records including a national economy run of 2,569 miles from Los Angeles to New York under the official observation of the A. A. A. in which a fuel average of 42.23 miles to the gallon was maintained, an owner economy test participated in by 5,265 owners with a national average of 23.7 miles to the gallon, and an official speed test on Lockingham Park speedway, Salem, N. H., in which a speed of 74.8 miles an hour was maintained for 50 miles.

The Whippet was the first four-wheel car in this country to use four-wheel brakes as standard equipment and the first in its class to introduce high speed, low center of gravity obtained by the use of low seating bodies was characteristic of the Whippet which has since been followed by other light car manufacturers.

Doesn't it strike you funny that all horse doctors make their calls in automobiles?

Pedestrians should be seen and hurt.

Entire Nation A Broadcasting Studio on Jan. 4

Will Rogers, Fred Stone, Paul Whiteman and Al Jolson in four different corners of America will broadcast to the entire United States by Dodge Brothers for one hour, ten-thirty to eleven thirty, on January fourth in what is the greatest mechanical achievement in radio telephony ever attempted and probably the costliest radio program yet given.

The program utilizing the facilities of the National Broadcasting company and American Telephone and Telegraph company will be the initial step by Dodge Brothers in an extensive advertising program, heralding the Victory, a new six cylinder motor car embodying entirely new principles of motor construction, it was announced today by Dodge Brothers, Inc., of Detroit.

Will Rogers, as master of ceremonies, will broadcast from Hollywood, California, Fred Stone from New York and Al Jolson from New Orleans in a linkup of 33 broadcasting stations made possible by most intricate engineering with special telephonic circuits and the use of over 12,000 miles of telephone wire.

From an engineering standpoint, according to officials of the American Telephone and Telegraph Company, the feat entails the overcoming of tremendous difficulties. Three transcontinental circuits will be utilized, one to serve the 33 broadcasting stations, one to transmit the programs of the various performers in New York where in turn they will be distributed to the broadcasting station circuit, and the third to be used for emergency purposes in case weather conditions affect the second circuit.

Hundreds of engineers will be at work on these three lines, both prior to and during the broadcasting. Over 200 men operating broadcasting stations in the hookup will be at work at stations throughout the country. Running parallel with the broadcasting circuits will be thousands of miles of wire lines utilizing telegraphic communications in order to transmit orders to engineers at work along the route. Over 20,000,000 people scattered throughout the United States will tune in on this program, according to the estimate of M. H. Anylessworth, president of the National Broadcasting company, who stated this event would place the entire nation in a sense in one radio studio.

"The four corners of the United States will be a broadcasting studio," said Mr. Anylessworth. Mr. Rogers, from one corner in Hollywood, will step before the microphone upon hearing his instruction from New York via the loud speaker. His voice travels by special telephonic circuits from California to New York when it enters the telephonic circuit of the broadcasting system. In a fraction of a second his voice comes back to him via the air from a local California broadcasting station. The same is applicable to Mr. Jolson in New Orleans, who immediately following his introduction by Mr. Rogers from California, which Jolson hears from a nearby receiving set, begins his performance which travels over thousands of miles of special telephonic circuits and comes back to him via the local broadcasting station almost immediately. So the program will be followed out.

GENERAL MOTORS CAR SALES HIGH

November Less Than October, Which Was Abnormally Heavy Month

NEW YORK, Dec. 31.—Commenting on the November sales of General Motors cars, Alfred T. Sloan Jr., president of General Motors, said: "Retail sales of motor cars by General Motors dealers to consumers in November were 80,539. This compares with 101,729 in November, 1926, and further with 69,257 in November, 1925. Sales by General Motors to its dealers in November totaled 57,621, as compared with 78,559, in November, 1926, and further with 73,374 in November, 1925.

"In reporting our sales for the month of October, I called attention to the fact that that month showed an abnormally high record, having been influenced by aggressive sales campaigns which resulted in a sales figure considerably higher than the current sales trend for that month. I also stated that the result of this was to advance into that month business that otherwise would have been consummated in November. The figures now reported for November reflect these conditions, and in addition, are lower than for November, 1926, by reason of the fact that last year, sales campaigns similar to those of October this year, were held in November. Sales of cars by General Motors dealers in November reflect suspensions occasioned by inventory taking, which is usual at this time, as well as by reduced production incident largely to a change of model in the Chevrolet Division. This factor will also, in all probability, influence our December figures.

"The above statement is made in line with our policy of keeping the public informed as correctly as possible, as to the trend of motor car sales throughout the world, to the extent that General Motors operations make that possible.

Monthly Sales The following tabulation shows monthly sales of General Motors cars by dealers to ultimate consumers and sales by the manufacturing divisions of General Motors to their dealers:

Table with 3 columns: Dealers Sales to Users, 1927, 1926, 1925. Rows list months from Jan to Nov.

Table with 3 columns: Divisions Sales to Dealers, 1927, 1926, 1925. Rows list months from Jan to Nov.

These figures include passenger cars and trucks sold in the United States, Dominion of Canada and Overseas by the Chevrolet, Pontiac, Oldsmobile, Oakland, Buick, La Salle and Cadillac manufacturing divisions of General Motors.

Nash Gives Cash To Plant Employees

Distribution of approximately three-quarters of a million dollars in cash Christmas remembrances was made by C. W. Nash, president of the Nash Motors company among employees of the company's plants at Kenosha, Racine and Milwaukee. No employee was overlooked, whether on a salary, time-

work, or piece-work basis. Mr. Nash personally greeted each employee as he passed out of the factory gates, wished him and his family a Merry Christmas and handed each an envelope containing a ten dollar bill. Office and other married employees were remembered after this factory men had received their gifts.

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Let The Other Fellow Pay Your Depreciation!

Every car is a used car the minute it becomes privately owned! A good used car, bought from a reliable dealer, is as perfect an automobile investment as you can make. You own a car and the other fellow—the original owner—has paid the depreciation for you by taking his loss.

His change to another new car is your gain. We have some cars that are barely broken in—new in every respect except the mileage reading on the speedometer—and the price means a big discount that you couldn't hope to get any other way.

Included in our used car stock are five used late-model—

Closed Cars Priced from \$500 to \$1000

And these include Chevrolet, Pontiac, Buick, and Studebaker. Start off the New Year with a good closed car. Convenient terms will make the purchase easy.

M. J. GOSS

Studebaker Buick Cadillac



A New Year Filled With Prosperity

This thing we call Prosperity comes only as a result of another thing called Efficiency. And efficiency, in farming and in industry, is the application intelligently of modern, tested, labor-saving machinery to reduce production costs and thereby increase the margin of profits. The Caterpillar Tractor can do that for you in the New Year. Let us show you how to make the year efficiently prosperous.

BUNTING TRACTOR COMPANY

La Grande, Oregon Boise, Idaho Pocatello, Idaho



Notice

Mr. Auto Owner—we can supply you with Windshield and Side Door Glass Cork Fabric Leather Welt Fisher Channel Felt-Covered Channel

La Grande Construction & Supply Co. Charles Harris, Prop. 1501 Madison

TEXACO GASOLINE MOTOR OIL Reliable Power Speed Mileage Above are the combined points of TEXACO GASOLINE and TEXACO Golden Colored Motor Oil. You'll Be Satisfied With TEXACO Heasty & George Corner Adams and Second