

How Ventilation of Crankcase Affects Your Oil

A number of automobiles which have appeared within the last year have announced the feature of vacuum ventilation for the crankcase. This is not generally understood by the motoring public and has been interpreted in many ways. The engineers of the Tide Water Oil company, refiners of Vedol motor oils and greases have made exhaustive tests to determine how this feature affects lubrication. They report that vacuum ventilation is a step in the right direction that has been advocated by many of the oil refiners and marketers for years. It will tend, they say, to overcome a condition which in the past has been understood by manufacturers and service organizations, but which has been very difficult to explain to the individual motorist.

A condition more usual in winter, but common to all seasons of the year, exists in the crankcases of many cars. It is known by many headings, such as condensation, water accumulation, sludging, etc. The process which takes place is as follows: In the combustion of the gasoline and air mixture, water vapor is formed, and if this vapor were to be condensed, it would be found that great quantities of water would result.

What Happens to the Gases
If the crankcase is not properly vented, these water-laden gases stay in the engine. If proper vents are supplied, the gases pass off. To facilitate this, the crankcase breather is standard on every automobile engine. Its location on the engine, however, is of vital importance. Obviously, if this breather is placed at a very low level it cannot vent the gases which are trapped in the engine at a higher level. A number of manufacturers have placed these vents at the topmost part. Two examples of this are the Nash and Marmon.

The front end of the engine housing, the camshaft and accessory shaft drive are usually built as a separate chamber. Gases are frequently trapped in this section and a number of manufacturers have provided a vent at this point. Sometimes, the usual crankcase vent and at other times an additional opening.

The Hudson engine uses a small piece of 1/8-inch tubing, which is sufficient for this purpose, and Cadillac, Willys-Knight 70 and Peerless have provided a main breather at this point. The Buick engine now has facilities for venting these gases by a series of ladders which are cut in the cover to the valve mechanism on the top of the engine. The vacuum ventilatory advertised by a number of manufacturers help this condition considerably.

The ventilation system provided by this hook-up ceases to function, however, when the engine is stopped, and it is after the engine is stopped that this condensation takes place. Therefore, care should be taken to inspect the condition of the lubricating oil, particularly in the winter time, whether your engine is provided with a vacuum crankcase ventilator system or not. Oil should be changed oftener in cars not provided with these new engine features.

Campers Urged to Cover Up Tin Cans

Campers should remember three very important things: First, when camp is made, two holes should be dug, one for the fire and another for tin cans and other refuse. Second, these should be used. Third, when camp is struck, the holes should be covered completely. That is the duty of every camper, according to the National Automobile club. By fulfilling this duty he will show a trait of good character and leave behind him an imprint of civilization.

New York Lays in Snow Equipment

Snow is in for a hard winter in New York next year. Seven hundred pieces of motor-driven equipment and 1500 trucks are ready to do battle with the next snowflake that makes an appearance, according to the National Automobile club. Snow-filled streets are one of the biggest problems that trouble the eastern cities in winter.

Western Auto to Take in Old Units

The Western Auto Supply company has this week, announced through their local manager, Hiatt, that old batteries will be taken in as part payment on new Western Auto storage batteries.

Wizard storage batteries have been sold by the Western Auto stores for many years," says Hiatt. "They are built according to our own specifications and of the finest materials. The Wizard battery is designed along the latest improved principles having a one-piece rubber case, grids designed to prevent buckling, long life plates and separators of selected cedar. These features make Wizard storage batteries unusually powerful and lasting.

"Thousands of Wizards are in use today, both in automobiles and radios, and are giving satisfactory service under all conditions. Battery service to our customers includes free installation, filling and testing, and the use of a battery without charge in case the customer's Wizard

battery should need repairing during the guarantee period. "Every Wizard battery sold carries the full Western Auto guarantee of satisfaction, and should any trouble develop within the guarantee period due to defects in workmanship or materials, we will repair it free of charge or replace it on a service basis.

"Our regular low prices offer great savings, and when we further reduce them by allowing a cash discount for the customer's old battery, we believe the Wizard to be unquestionably the most economical battery on the market."

ROADS SURFACED

Thirty-five thousand miles of roads in the United States were surfaced last year, according to the California State Automobile association.

Ford

1924 touring runs fine; priced right; only \$140.
Ostendorf Motor Co.

Western Auto Supply Co.
The World's Largest Retail Accessory Concern
Serving the Motorist Since 1909

More than 150 Stores in the West

Cash for your old Battery -in exchange for a new Guaranteed WIZARD Storage Battery



6 VOLTS
12 PLATES
PRICE \$8.95

Batteries installed FREE

Built to Last -
Wizard Storage Batteries are expertly built of the finest materials obtainable... and in design, follow the latest approved principles of battery construction. Cases and jars are all one piece seamless rubber; grids are specially designed to prevent buckling; plates are extra thick and long lived... and, separators are of selected cedar... All these features make Wizard Batteries unusually powerful and lasting.

Reliability and Service -
"Western Auto" has been selling Wizard Batteries for over nine years. Thousands are in use today... all over the west, and are giving satisfactory service under all conditions. Any one of our more than 150 stores in the west will service your Wizard Battery FREE of charge. ...will loan you a battery FREE of charge if your Wizard ever needs repairing during the guarantee period. ...will install your Wizard FREE of charge. This free service increases the economy of using Wizard Batteries.

Deduct Trade-In Allowance From These Low Prices

6-11 Wizard Special	\$ 8.65
6-11 Wizard Heavy	10.65
6-13 Wizard Special	10.65
6-13 Wizard Heavy	12.85
6-15 Wizard Special	13.85
12-7 Wizard Heavy	14.95

Other sizes for all cars, at proportionately low prices.

Our Low Prices
...just as they are... offer great savings, and when you further reduce them by deducting your Trade-In Allowance on your old battery... "Wizards" are unquestionably, the most economical batteries you can buy.

18 Months Guarantee
Every "Wizard" is guaranteed for 18 months (except the 6-11 Standard and 6-13 Special... 12 months; and the 6-11 Special... ninety days.)
If any "Wizard" Battery develops trouble due to defects in workmanship or material within the guaranteed period, we will repair it free of charge, or replace it on a service basis.

For Your Convenience:
OPEN Saturdays UNTIL 9 p.m.

More than 150 Stores in the West -
Western Auto Supply Co.
7th and Pine

FREE Catalog
Every motorist should have the latest edition, just off the press, of our big catalog. It lists thousands of savings on Tires, Accessories, Camp Goods and Radios.

ONE MORE WEEK

To Get 90,000 Extra Votes For \$20 Clubs

Two More Weeks

To Win \$200 in Extra Cash Prizes

A great big double offer whereby you can make sure of winning a fine automobile in The Klamath News and Evening Herald's \$6,000 prize campaign, and a liberal cash prize while you are doing it! Ninety thousand extra votes given to candidates for every \$20 worth of new subscriptions turned in during the two week's period ending August 6. Two hundred in cash awaits three candidates who make the best showing in subscription business during the three weeks' period ending August 13.

How Extra Prizes will be Awarded

Two hundred dollars in gold will be awarded in extra prizes during this special cash prize offer, as follows:

- First Prize \$100.00
- Second Prize 60.00
- Third Prize 40.00

The three special cash prizes will be awarded to the three candidates, regardless of the district they live in, who turn in the highest amount in cash in subscription payments during the period starting July 25 and ending August 13. The first prize of \$100.00 will be awarded to the candidate who turns in the highest amount of cash in subscription payments during this special cash prize offer. The second prize of \$60.00 in cash will be awarded to the candidate who turns in the second highest amount of cash in subscription payments during this special cash prize offer. The third prize of \$40.00 in cash will be awarded to the candidate who turns in the third highest amount in cash in subscription payments during this special cash prize offer. These cash prizes are EXTRA and in no way conflict with the awarding of the automobiles and other prizes to be given at the close of the campaign. A candidate can win one of these special cash prizes and also win one of the automobiles or other prizes.

How to Get Extra Votes

In addition to the extra cash prizes, candidates are offered a wonderful opportunity to get thousands of extra votes by forming "new subscription clubs."

90,000 extra votes will be given for every \$20 worth of new subscriptions turned in during the period starting July 25 and ending August 6. The 90,000 votes are a bonus in addition to the regular votes given on subscriptions.

There is no limit to the number of clubs any candidate may turn in. For every \$20 worth of new subscriptions there will be 90,000 extra votes. This is the greatest extra vote offer to be given during the remainder of the campaign. It is NOT necessary, or advisable, to hold subscriptions until the \$20 worth are secured. Turn in your subscriptions as obtained, so the subscribers will receive their papers promptly, and after the offer closes a ballot will be mailed to cover the extra votes earned.

All subscriptions turned in on this extra vote offer will also count in the \$200 special cash prize offer.

The extra vote offer ends August 6. The Special Cash Prize offer ends August 13.

STANDING OF CONTESTANTS

DISTRICT NO. 1	DISTRICT NO. 2																																																										
<p><small>Comprises all territory within the city limits of Klamath Falls, Shippington and Pelican City.</small></p> <table border="0" style="width: 100%;"> <tr><td>Brachou, Sophie</td><td style="text-align: right;">179,000</td></tr> <tr><td>Craft, Lee</td><td style="text-align: right;">170,000</td></tr> <tr><td>Borman, Wm. J.</td><td style="text-align: right;">173,000</td></tr> <tr><td>Edmonds, Mina</td><td style="text-align: right;">178,500</td></tr> <tr><td>Foster, Mrs. Walter</td><td style="text-align: right;">179,000</td></tr> <tr><td>Howard, Juanita</td><td style="text-align: right;">175,000</td></tr> <tr><td>Hosking, Mrs. J. E.</td><td style="text-align: right;">176,000</td></tr> <tr><td>Jones, Mrs. Wilbur</td><td style="text-align: right;">177,000</td></tr> <tr><td>Johnson, Margaret</td><td style="text-align: right;">171,000</td></tr> <tr><td>Martin, Mrs. J. Pel. City</td><td style="text-align: right;">178,000</td></tr> <tr><td>McElwin, Marie E.</td><td style="text-align: right;">175,500</td></tr> <tr><td>Metzler, H. M.</td><td style="text-align: right;">106,000</td></tr> <tr><td>Moore, Vera</td><td style="text-align: right;">173,000</td></tr> <tr><td>Torrey, Mrs. B. D.</td><td style="text-align: right;">172,000</td></tr> <tr><td>Vernon, Mrs. J. W.</td><td style="text-align: right;">171,000</td></tr> <tr><td>Wahl, Mrs. Nella</td><td style="text-align: right;">69,000</td></tr> </table>	Brachou, Sophie	179,000	Craft, Lee	170,000	Borman, Wm. J.	173,000	Edmonds, Mina	178,500	Foster, Mrs. Walter	179,000	Howard, Juanita	175,000	Hosking, Mrs. J. E.	176,000	Jones, Mrs. Wilbur	177,000	Johnson, Margaret	171,000	Martin, Mrs. J. Pel. City	178,000	McElwin, Marie E.	175,500	Metzler, H. M.	106,000	Moore, Vera	173,000	Torrey, Mrs. B. D.	172,000	Vernon, Mrs. J. W.	171,000	Wahl, Mrs. Nella	69,000	<p><small>Comprises all territory outside the city limits of Klamath Falls, Shippington and Pelican City.</small></p> <table border="0" style="width: 100%;"> <tr><td>Anderson, Mrs. Frances, Dorris, Cal</td><td style="text-align: right;">173,000</td></tr> <tr><td>Baery, Josephine, Lakeview</td><td style="text-align: right;">178,500</td></tr> <tr><td>Brown, Mrs. Arlene, Merrill</td><td style="text-align: right;">177,000</td></tr> <tr><td>Bunch, Marian, Ft. Klamath</td><td style="text-align: right;">172,000</td></tr> <tr><td>Dufort, Mrs. J. O., Chiloquin</td><td style="text-align: right;">175,000</td></tr> <tr><td>Daniel, Mrs. C. M., Bonanza</td><td style="text-align: right;">179,000</td></tr> <tr><td>Hanan, Louise, Paisley</td><td style="text-align: right;">174,000</td></tr> <tr><td>Kelkar, Kamilla, Malin</td><td style="text-align: right;">176,000</td></tr> <tr><td>Milkiff, Mildred, Algoma</td><td style="text-align: right;">175,500</td></tr> <tr><td>Puckett, Jessie, Keno</td><td style="text-align: right;">179,000</td></tr> <tr><td>Skern, Meila K.</td><td style="text-align: right;">175,000</td></tr> <tr><td>Tice, Elva, Chiloquin</td><td style="text-align: right;">170,000</td></tr> <tr><td>Wait, Mrs. H. W. R.F.D.</td><td style="text-align: right;">176,000</td></tr> </table>	Anderson, Mrs. Frances, Dorris, Cal	173,000	Baery, Josephine, Lakeview	178,500	Brown, Mrs. Arlene, Merrill	177,000	Bunch, Marian, Ft. Klamath	172,000	Dufort, Mrs. J. O., Chiloquin	175,000	Daniel, Mrs. C. M., Bonanza	179,000	Hanan, Louise, Paisley	174,000	Kelkar, Kamilla, Malin	176,000	Milkiff, Mildred, Algoma	175,500	Puckett, Jessie, Keno	179,000	Skern, Meila K.	175,000	Tice, Elva, Chiloquin	170,000	Wait, Mrs. H. W. R.F.D.	176,000
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SECOND PAYMENTS

Second payment subscriptions are extension payments on subscriptions already secured by candidates.

Suppose you have already turned in a subscription for \$1.35 to The News or Herald; for this payment you received 1,500 votes. If you get this same subscriber to pay \$1.55 more to extend his subscription to 6 months, for the "Second Payment" you will receive 3,500 votes, as 5,000 votes is the amount issued for a full 6 months' subscription. If the first payment was for \$2.50 and you collect \$3.00 more to make the full year, for the "Second Payment" you will receive 10,000 votes, as 15,000 votes are issued for a full year. If the first payment was \$1.75 and you collect \$1.00 more, to make the full six months, by mail, for the second payment you will receive 2,500 votes. If the first payment was \$2.75 and you collect \$2.25 more, for the second payment you will receive 8,000 votes. This Second Payment plan applies to any second payments. Also, if the first payment was NEW the "Second Payment" is also NEW and should be entered in the new column on remittance sheet. **IMPORTANT**-In order for candidates to receive credit for second payment votes, it is ABSOLUTELY necessary to write "Second Payment" on the remittance sheet, also give amount of first payment, otherwise the second payment votes will not be allowed.

To Enter Use Blank Below

Regular Prize List

CAPITAL PRIZES

Buick 5-Passenger Sedan	\$1,515.00
Chrysler "50" Sedan	1,005.00
Chevrolet Sedan	849.00
Essex Sedan	965.00

DISTRICT PRIZES

Two \$300 Stromberg-Carlson Radio Sets	\$ 600.00
Two \$150 Stewart-Warner Radio Sets	300.00
Two \$75.00 Cash Awards	150.00
Two \$50.00 Cash Awards	100.00
Cash Commission Appropriation	550.00
Total	\$6,034.00

NOMINATION BLANK
Good for 2,000 Votes

Please enter:

Name

As a Candidate in The Klamath News and Herald Automobile and Prize Campaign

Street and No.

Town or City Dist No.

Signed

Address

10,000 Extra Votes

If you enter during the first six weeks of the campaign. Only one nomination blank credited to each candidate. You can enter yourself or nominate any other person.

Used Trucks
Our trucks are sold to give satisfactory service. Several on hand at fair prices and sold on Terms.

Ostendorf Motor Co.
Dodge and Graham Brothers-Dealer
515 Klamath Ave. Phone 272

Have Your Broken Automobile Glass Replaced Quickly While You Wait
BOB RYAN'S AUTO TOP SHOP
NOTE: See Bobby Ryan about your car awning.