



Inside the crankcase— that's where the trouble generally starts

How black sediment in ordinary oil damages your automobile engine

MORE and more motorists are discovering that most of their engine troubles start inside the crankcase. And there's a reason for it.

In the average engine there are about 600 square inches of friction surfaces. Without proper lubrication these surfaces of metal grind together until only costly replacements will repair the damage.

Under the intense heat of the engine—200° to 1000° F.—ordinary oil forms great quantities of black sediment. Sediment has no lubricating value. It not only destroys the film of oil between the fast-moving parts, but falls back into the crankcase and contaminates the entire oil supply. Friction and wear increase. Bearings become loose and pound. Cylinders and pistons score, carbon forms rapidly.

Troubles caused by sediment can now be prevented

Veedol, the lubricant that resists heat, has

been perfected, which keeps a thin, unbroken film of oil on every surface.

Sediment is reduced 86% when you use Veedol. (See the bottles at the left). Veedol maintains the oil film that keeps apart the 600 square inches of metal. Excess carbon is prevented, valves need grinding less often, overheating is stopped.

Go to your garage man and have your engine flushed out to cleanse it completely of grit, sediment and thickened oil. Fill up with Veedol. Leading dealers have Veedol in stock. Ask for it to-day.

Veedol lubricants for every part of the car

Use Veedol lubricants for all parts of the car: VEEDOL for the engine (light zero, medium, heavy, special heavy, extra heavy); for the differential and transmission, VEEDOL TRANS-GEAR OIL or GEAR COMPOUND; for the tractor and truck, WORM DRIVE OIL; GRAPHITE GREASE; CUP GREASE.

TIDE WATER OIL

Sales Corporation

11 Broadway, New York City

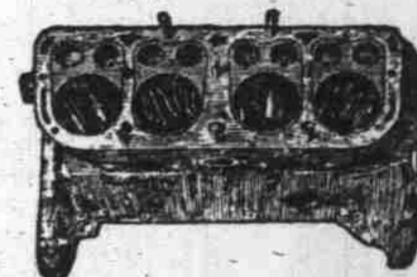
Pacific Division Office, 1110 Claus Spreckels Bldg. San Francisco, Cal. Warehouse—8 Front Street, Portland, Ore.



Ordinary oil after use showing sediment formed after 500 miles of running. Veedol after use.



A dull, grinding noise in the transmission box is often due to faulty lubrication. If the grease coating here does not separate the meshing gears at all times, worn gear teeth are the result.



Scored cylinders result inevitably from poor oil which fails to maintain the oil film and permits metal-to-metal contact. Then your engine "pumps" oil, sparks plugs foul, carbon forms rapidly, knocking and overheating are the result.



Scored pistons also result from the use of inferior oil—another illustration of the damage done when the oil film fails to keep the metal surfaces apart.

Veedol Dealers

AUTHORIZED FORD DEALERS
(Ford Tractor Dept.)

- PORTLAND**
C. L. Ross, 617 Washington.
Covey Motor Co., 21st at Washington.
Union Service Station, Union Ave.
Fleicher & James, 6th, Pine and Ankeny.
A. J. Gaska Service Station, 480 Hawthorne Ave.
Wm. L. Hubbard Co., Broadway and Davis.
E. Kaufman, 837 Ankeny.
Laurel Ross Garage, 834 E. Burnside.
Roy H. Marx, 414 Stark.
Northwest Auto Co., 18th at Alder.
Overland Pacific Co., Broadway and Davis.
Palco Garage, 12th and Stark.
Portland Motor Car Co., 10th and Burnside.
Red Cap Garage, 409 Stark.
Thompson & Kelley, 448 Flanders.
Union Avenue Garage, 381 Weidler.
Universal Car Exchange, Grand Ave. and E. Yamhill.
Weber's Garage, 900 E. Belmont.
- ALBANY**
Ford Automobile Agency, Kirk-Meyers Motor Co.
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- AMITY**
Newman Brothers.
- ARLINGTON**
Leson & Small.
- AURORA**
Stoner Brothers.
- BAKER**
Baker Garage, Baker Grocery, Baker Nash Motor Co., Vance Motor Co.
- BEND**
Ford Automobile Agency, Pioneer Motor Co.
- BAY CITY**
Going & Wedeman.
- BEAVERTON**
Otto Erickson Co., Kent Automobile Agency.

- BONNEVILLE**
Bonnetville Garage, CANBY
Ford Automobile Agency, Lenta Brothers Garage, G. W. White Garage.
- CLATSkanie**
Brewer Brothers Garage, Buick Automobile Agency, Clatrac Tractor Agency.
- CORNELIUS**
C. L. Eshwanke.
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Buick Automobile Agency, Dodge Automobile Agency, Greig & Groat, M. A. Richard, Riley & Meter, A. Wilhelm & Sons, Whitelaw & Locke.
- FOREST GROVE**
Ford Automobile Agency, GERRAIS
Gerrais Garage, GRESHAM
Raker & Son, HAINES
Haines Commercial Co., HILLSBORO
M. P. Cady, Ford Automobile Agency, Otto Erickson Co., Ford Automobile Agency, HOOK RIVER
Columbia Service Station, Dickson-Harsh Auto Co., Essex Automobile Agency, Ford Automobile Agency, Highway Automobile Co., Hudson Automobile Agency, Mt. Hood Motor Co., Inc., Nash Automobile Agency, Imbler Garage, INDEPENDENCE
Stewart Motor Co., JUNCTION CITY
Junction City Garage Co., KLAMATH FALLS
Charles' Place, Downer & Patis, Ford Automobile Agency, Imperial Garage, LA GRANDE
Empire Filling Station, Ford Automobile Agency, Frank W. Hill's Garage, Inland Motor Co., Oregon Grocery Co., Smith's Garage.

- EUGENE**
Rangs Garage, O. F. Benner, Eugene and Springfield Road, Dodge Automobile Agency, Dudley-Weller Motor Co., 295 8th Ave., Ford Automobile Agency, Bloom Brothers Auto Co., Mack's Auto Supply House, Mitchell & Jordan, Oakland Automobile Agency, Pacific Auto Co., Packard Automobile Agency, Samson Tractor Agency, E. C. Simmons, Vick Brothers.
- GRESHAM**
Raker & Son, HAINES
Haines Commercial Co., HILLSBORO
M. P. Cady, Ford Automobile Agency, Otto Erickson Co., Ford Automobile Agency, HOOK RIVER
Columbia Service Station, Dickson-Harsh Auto Co., Essex Automobile Agency, Ford Automobile Agency, Highway Automobile Co., Hudson Automobile Agency, Mt. Hood Motor Co., Inc., Nash Automobile Agency, Imbler Garage, INDEPENDENCE
Stewart Motor Co., JUNCTION CITY
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Charles' Place, Downer & Patis, Ford Automobile Agency, Imperial Garage, LA GRANDE
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- LEBANON**
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Central Oregon Automobile Co.
- MARSHFIELD**
Auto Service Co., Dodge Automobile Agency, E. H. Merrill.
- MEDFORD**
Buey Corner Motor Co., Main St. and Riverside, Cadillac Automobile Agency, Ford Automobile Agency, Highway Garage, H. Holappa, H. Leblre, Rainier Garage.
- MONMOUTH**
Graham & Sons.
- MONROE**
A. Wilhelm & Sons, Deschutes Motor Co.
- MOSIER**
Vetch & Nichols.
- NONNIVILLE**
Buick Automobile Agency, Caliste & Brown, Essex Automobile Agency, Ford Automobile Agency, Hudson Automobile Agency, McMinville Motor Car Co., Nash Automobile Agency, Oakland Automobile Agency, Packard Automobile Agency, Homer Ross, Samson Tractor Agency, Vick Brothers.
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- PENDELTON**
Highway Service Station, Pendleton Auto Co., Sierras & Storey, Holt Tractor Agency, Franklin Automobile Agency.

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Elkins Motor Sales, Ford Automobile Agency, Studebaker Automobile Agency.
- REDFORD**
Hook Auto Co., Ford Automobile Agency, L. R. Coit.
- RAINIER**
N. H. Atzig, Chevrolet Garage, Clig Garage, Highway Garage, H. Holappa, H. Leblre, Rainier Garage.
- ROSEBURG**
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O. L. Horn, Harry Lewis, Campbell Auto Co., Morse Hardware Co., Crawford & Lamant, OENTRALIA, WASH.
Ballard & Co., C. M. Carter, Craven Brothers, Ewing Motor Co., J. E. Gable, Hayden-Nash Motor Co., Kresky Williamson & Olson, L. E. Titus, Warren Bros., OENHALIS, WASH.
J. E. Gable, J. P. Galvin, Hayden-Nash Motor Co., Kresky Motor Co., H. E. Quick, St. John's Motor Co.

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Larson's Garage.
- WASCO**
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Bulley's Garage, Central Agency, Dave Ferguson, Fisher Bros., Wm. L. Hughson Company, Granger Motor Company, Hank Accessories Company, Mitchell Tractor Co., Northway Motor Co., Palms Motor Co., Pacific Auto Co., Reynolds & Reynolds, Robert Service Station, Standard Garage, Seattle Auto Freight Co., Seattle Hardware Co., White Garage.
- BERDEEN**
Adams O'Brien Motor Co., P. & F. Garage, L. A. Polson, Wolf-Eldon Motor Co.
- APPLETON**
Appleton Cash Store, Lindley & Johnston.
- BELLINGHAM**
O. L. Horn, Harry Lewis, Campbell Auto Co., Morse Hardware Co., Crawford & Lamant, OENTRALIA, WASH.
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J. E. Gable, J. P. Galvin, Hayden-Nash Motor Co., Kresky Motor Co., H. E. Quick, St. John's Motor Co.

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L. B. Barker, Horner, Moore & Co.
- CLE ELUM**
Cle Elum Auto Co., Aaron Reese, Rhodes & Robinson, Gilford I. Wilson.
- ELLENSBURG**
W. L. Eaton, John Kuehler, Reynolds Motor Co., Sayles Motor Co., Sunset Auto Sales Co., Fairweather Bros.
- ELMA**
Konch & Ball, Minard Co., Inc., Pentant Auto Co., Wakefield Bros.
- EVERETT, WASH.**
F. M. Tire Shop, Mustard Auto Co., Burke Auto Co., Fred Whitney.
- FREEWATER**
Wolminger Garage.
- GOLDSDALE, WASH.**
Baker & Bullock.
- HOQUIAM**
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Bwaco Garage.
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McIntyre's Garage, Blair Brothers, Ford Agency, Nelson's Garage.
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R. P. Coleman, Gaumont Motor Co., G. O. Hallack, Rasmussen & Co., John Neuberger, Dodge Motor Co., Wyma & Hayes.

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