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[^0]:    THE SECRET OF THE INCREASED PULIING POWER OF THE LONG STROKE "32" HUPMOBLLE
     -A stroke neither too $-{ }_{-}^{-}$motor with gill
    
    shate nerails.

    30 North Holly
    VALLEY AUTO CO.
    Medford, Oregon
    A motor car's ability to get over the road-to make the grades-to haul the load-is truly defined by its pulling power, and by nothing else. Thus, because rated power is merely a mathematical computation, based on the motor's bore and stroke, it cannot be an accurate indication of what the Hupmobile Long-Stroke " 32 ," or any other can, can aetual-
    On the other hand, pulling power is increased or decreased by these most
    1-Relation of piston stroke to cylinder bore.
    2-Motor design.

    - Efficiency of the carburetor

    4-The degree of simplicity attained in the general chassis construction. 5-The degree to which friction is reduced in the working parts. Let us see how and why it is greater in the Long-Stroke " 32 ,"

    Transmission of $\mathbf{4 0 H}$. P. Size
    
     bearings. Largo gearn are of actd open hearth steel, smaller ones of
    electric alloy steel-both hard and long wearing. maported F\&
    Annular roller bearings and ball thrusts throughout. Flywheel Pumps oil

    ## wheel, by presuare, pumps the oll to all parts of motor, clutch en

    tranambsion. Grit is segregated in sediment chambera. This aystem Is not only highly efflelent and antomatle, but econeis used and circulated over and over and over again.

    Full-Floating Rear Axle
    $\qquad$ rear axle-so strong structurally that no truas rods are needed. Wheel run on Bower high-duty roller bearings mounted on the axlo casing
    while the axie mhatts, bolted to the hub nangen, turn the wheels while the axie whatts, botted to the hub flangen, turn the wheols, bu
    bear no welght. The front axie, too-one plece, drop forged-

