





proximately 5 minutes, must be allowed for oil to drain back from the upper engine cavities to the pan, or a false reading may be obtained.

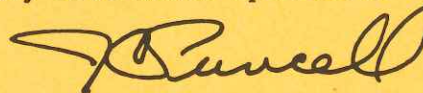
When an owner reports an engine using an excessive amount of oil, consideration should be given to the operating conditions of the vehicle before assuming any internal malfunction. Higher speeds, increased engine output and greater torque are not to be overlooked in diagnosis of the problem. Increased oil consumption may be expected in any automobile engine driven continuously at high speeds in excess of 60 MPH or during high speed driving, following slow speed city driving. When an engine is used principally for slow speed city driving under conditions where considerable crank-case dilution occurs, a rapid lowering of the oil level may result when the car is driven for some distance at high speed. This is due to the dilution from city driving being removed from the crank-case by the heat of high speed driving. This is a normal condition and should not be mistaken for excessive oil consumption.

If, however, it can be definitely determined that oil usage is due to some possible mechanical malfunction, an inspection for leaks should be made. A careful check must be carried out, especially in areas such as rocker cover gaskets, oil pan gaskets, side cover gaskets and crankshaft seals, front and rear. In addition, a check should also be made to assure either the valve guides or stems are not worn excessively or that the valve stem seals are not mispositioned or damaged. If any of the above possible conditions are present, they should be rectified and the vehicle placed in service to once again carry out a reasonable oil mileage check.

This should be determined by draining the sump and re-filling it with the recommended quantity of fresh oil (not above the "full" mark on the dipstick). The owner should be requested to drive the vehicle, following his normal driving habits for 500 miles. During this period, no oil is to be added unless the level falls below the "add" mark on the dipstick. In this event, the owner should, if possible, return the vehicle to the Dealer for re-filling.

After 500 miles operation, the oil level should be carefully checked after the engine has been shut off for a minimum period of five minutes. The dipstick reading will then permit dealer personnel to accurately estimate the rate of oil consumption.

In conclusion, it must be emphasized that every internal combustion engine should use a certain amount of oil to act as a lubricating and cooling agent, especially during the break-in period and that the initial rate of consumption will gradually decrease until it becomes stabilized after approximately 5000 miles operation.



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