



# MERCRUISER SERVICE BULLETIN

SECTION: VII *Fuel System  
& Carburetion*  
NUMBER: 162-3  
DATE: 12/5/62

Boyer Dam, Wis.  
U. S. A.

SUBJECT: Carburetor "Lean" Mixture

We have received several reports from the field concerning "lean" operation of Inboard Marine Engines.

The problem, while new to outboard-oriented people, is familiar in the inboard engine field. The lean mixture is caused by accumulation of a deposit in the main jets of the carburetor. This deposit, sometimes hardly visible to the eye, reduces the diameter of the jet and, thus, leans out the mixture.

The deposit is formed by a chemical reaction between humid air and gasoline which is left standing in the carburetor bowl. Accumulation is spotty, and occurrence depends upon certain conditions of humidity, heat and composition of the gasoline. Accumulation time also is required, hence the deposit usually will be observed after engines have been run, then stored or left idle for some period of time.

The problem rarely occurs in automobiles, since a car seldom is left inoperative for more than a few days, and since high humidity under the hood is unusual.

When such deposits are found, the immediate cure is simply to clean the main jets to restore to proper bore size. Some fuels, which are sold at marine stations, incorporate anti-gumming compounds to prevent these deposits. Most do not, hence, we recommend that you and your customers use Quicksilver Solver Carburetor Conditioner, Part No. 92-34249, to reduce deposit build-up. Quicksilver Solver Carburetor Conditioner is available through MerCruiser dealers.

Interestingly, this problem is not common in outboard motors, simply because the oil in the gasoline inhibits formation of the deposit.

If any of your MerCruiser customers experience this type of fuel problem, explain the cause and the method of treatment with Quicksilver Solver Carburetor Conditioner.

Place Your Order Now for New Quicksilver Solver Carburetor Conditioner:

92-34249 Quicksilver Solver Carburetor Conditioner, 12 Oz. Can \$ .89 List  
(Minimum Dealer Order: 1 Case (24 Cans))  
92-34249-24 Quicksilver Solver Carburetor Conditioner, 1 Case 21.36 List  
(Regular Discount)