

NO: 08-28-93

SUBJECT: 3.5L Engine Spark Plug Discoloration

DATE: Jul. 9, 1993

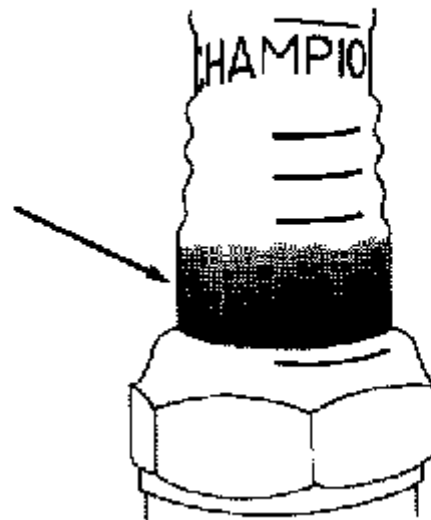
DISCUSSION:

The brown stain on the spark plug insulator above the metal shell and below the spark plug boot is a common occurrence. This condition is not a defect and does **NOT** require the spark plugs to be replaced due to this appearance.

The ignition system generates a corona in the area of the spark plug not covered by the spark plug boot. The electrical capacitance of the spark plug creates an electrical field in the region of the spark plug. The electrical field generates ozone from the air. Ozone is a very active form of oxygen that will combine with ever present contaminants that form the harmless brown stain.

STAINING OF SPARK PLUG INSULATOR CAUSED BY REACTION OF OZONE (O₃) WITH CONTAMINATES IN THE AIR

THE HARMLESS BROWN STAIN FORMS ON THE INSULATOR ABOVE THE SHELL AND BELOW THE SPARK PLUG BOOT.



POLICY:

Information only.