

GOV-10/50 FIELD APPLICATIONS

Throughout the six years it has been in production, the GOV10/50 Gas Engine Governors have proven their reliability and service on Cooper, Clark, Ingersoll-Rand, and other integral compressor engines. In recent years, many GOVs have been applied to a number of fuel admitted engines in field compression applications, including a number of Superior models. These latter applications are by definition more difficult as they are often subject to higher levels of vibration, temperatures, and both liquids and corrosives resident in the fuel gas.

Operational problems encountered as a result of this vibration are sometimes seen as a pressure sensor offset, or error (fuel supply, control, or manifold pressure). In areas of vibration, and the normal outdoor environment which is vented into the unit (the control housing has a flame-proof vent to atmosphere and is certified for explosion-proof enclosures), a condition known as “thin film resistance” can occur on the pins of the plug in PCB connector. This resistance acts as an insulator to the low voltage and low current sensor signals and is seen in operation as an error in the reported pressure. To improve the operation of these connections, a liquid solution known as “Stabilant 22” is available and has shown to make a remarkable improvement where these issues have been reported. This product has been used in the aerospace, automotive, and computer industry for many years, and has been used on many similar sensor applications as used in the GOV. Typically this product is used as “Stabilant 22A”, which is 4/5 isopropyl alcohol, which allows it to penetrate the connector and evaporate, leaving behind the connection enhancer.

Any GOV which exhibits these issues can be easily improved by applying this product to these connectors. For more information on Stabilant 22 go to www.stabilant.com. This product can be purchased in a 15mL bottle (can do hundreds of connectors) by ordering it at your local NAPA or auto parts store that sells Standard Motor Products (Niehoff). The NAPA-Echlin part number is CE 1, and the Standard Motor Products part number is SL 5. Both retail for about \$60.00.

This product may have other applications where intermittent connectors have caused havoc in control and sensor systems. Its use may be welcome in your bag of tricks!