C. E. Niehoff & Co.
BRUSHLESS ALTERNATORS

Service Bulletin
Field Inspection

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Topic: HIGH VOLTAGE CONDITION, Regulator A2-126, used with Alternator C609

Customer: All mining vehicle applications

C.E. Niehoff & Co. has received inquiries regarding a high voltage condition on certain vehicle applications using the above named alternator and regulator combination. Short term voltage values, above the highest voltage regulator setpoint, will not cause immediate damage to the alternator or voltage regulator but the vehicle's electrical system may not be able to tolerate these short term, high voltage values.

Investigation into the cause of this high voltage condition has revealed that certain vehicle applications, combined with special operating environments, permit conductive debris to collect between the voltage regulator and the alternator. When conductive debris pack the area containing the regulator voltage adjustment terminals the regulator may go to high voltage.
To eliminate the occurrence of this condition, the following steps are recommended:

1. Remove the voltage regulator from the alternator.
2. Clean the area around the voltage adjustment terminals with a non-grease based electrical contact cleaner.
3. Apply a coating of non-acetic acid, silicone sealer (oxygen sensor friendly RTV), to the exposed voltage adjustment terminals.
4. Reinstall voltage regulator after silicone sealer has cured.

It is further recommended that all voltage regulators presently in spare parts inventory be so coated to protect the integrity of the voltage adjustment area prior to installation on the alternator.

Please file this CEN Service Bulletin with your CEN Literature.
Please forward a copy of this information to the appropriate people in your company.