TECHNICAL BULLETIN

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Topic
Use of higher octane fuel on 2-Stroke Applications

Issue
During the calibration set up of each engine, engineers determine what fuel type and Octane rating is suitable for best performance and wide range of weather conditions. Altering the fuel octane rating to a higher (or premium fuel type) than specified will/could result in the vehicle failing to start or engine failure during operation.

Solution
Higher octane fuels burn at a slower rate to prevent a lean out condition could cause engine damage (Vehicle manufacturers will specify the use of a higher fuel octane if needed). By using a higher octane on an application where a low octane fuel is recommended, the result will be ***gas-fouled spark plugs***. Always comply with the original fuel recommendation to avoid problems.

Additional Information
If you are using the correct octane rating, check the spark plug resistor caps (replace every 2-3 years) and ignition cables (replace if older than 4 years). While the cables may appear in good condition, the outer jacket may become porous allowing moisture to penetrate the outer jacket and create a misfire condition and also cause gas-fouled spark plugs.

NOTE: Gas-fouled spark plugs are not the result of a manufacturing defect and will not be considered for warranty replacement from NGK Canada Spark Plugs.

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