

SAE CSC2004 SNOWMOBILE DESCRIPTION FORM

Please fill out the following form and return it to Lori Witting before you leave the registration area. *Answer all questions about your snowmobile as it is actually competing (not as it was intended to compete).* Please answer all questions accurately, as the responses you supply will be used to summarize your entry in the SAE CSC2004 Summary Technical Paper.

Team Name and Number: Kettering University #3

Engine

Engine Cycle (2-stroke, 4-stroke, rotary) 4 stroke

Engine Displacement (cc) 945 cc

Engine Manufacturer Yamaha

Engine Modifications Reduced displacement from 998 cc to 945 cc

Compression Ratio 11.2 to 1

Turbocharged? Supercharged? No

Engine Management System Motec

Fuel Delivery (Carburetors, EFI, DI): EFI

Emission Control

Air/Fuel Ratio Chosen (lean, stoich?) Stoich

Catalyst? Type? Tenneco – 3-way (metallic & ceramic substrates)

Secondary Air Injection? No

Exhaust Gas Recirculation? No

Other No

Noise Control

Describe Strategy Tuned exhaust for mid and high range frequencies.

Performance Maintenance

Describe Strategy Added fuel injection (sequential) and only decubed engine ~5% to get under 960 cc displacement rule.

Other Unique Features of Your Snowmobile

Describe Strategy Performance sled with closed-loop fuel injection. Special attention to reliability and cost.

Special Measurements Needed for Acceleration Event

Inside Ski Stance 36³/₄ inches **Outside Ski Stance** 47 inches **Front Bumper Height** 18 inches