

SAE CSC 2012 IC SNOWMOBILE DESCRIPTION FORM

Please fill out the following form and return it to the registration desk. *Answer all questions about your snowmobile as it is actually competing (not as it was intended to compete).*

Team Name North Dakota State Univ (Bison Motorsports) Team Number: 11

Chassis-Year 2010 Model Polaris IQ Turbo LX

Engine

Engine Cycle (2-stroke, 4-stroke, rotary, or electric) 4-stroke Number of Cylinders 3

Engine Displacement (cc or electric motor size) 898 cc

Engine Manufacturer Kubota

Engine Modifications (if any) Turbo charger, Fuel injection pump, Oil Pan

Compression Ratio 24:1

Turbocharged? or Supercharged? Yes or No - If Yes circle one

Engine Management System ECU Mechanical Fuel Injection - No ECU

Fuel Delivery - Carburetors, EFI, DI, SDI - (circle one)

Fuel Pump Pressure 45 psi Fuel Type (circle one) Flex Fuel, Biodiesel, Battery technology

Emission Control

Air/Fuel Ratio Chosen (lean, stoichiometric?)

Catalyst? Type? Yes, Diesel oxidation catalyst

Secondary Air Injection? - Yes or No (circle one)

Exhaust Gas Recirculation? - Yes or No (circle one)

Other Partial flow Diesel particulate Filter

Noise Control

Muffler Design Integral to DPF

Noise Treatment Snow Flap, Noise attenuating fan

Cooling

Describe Strategy Factory, minus radiator fan

Other Unique Features of Your Snowmobile

Describe Strategy Low Noise and Low emissions through engine choice.

Track Manufacturer Camoplast Length 136 Pitch 2.52

Traction Studs No? Yes? Type Woody's Gold-digger GDP-1075 (x96)