

# Clarkson Winter Knights Flex-Fuel Polaris FST Classic

Pete Giovenco  
Matthew Mastro  
Peter Schneeбели



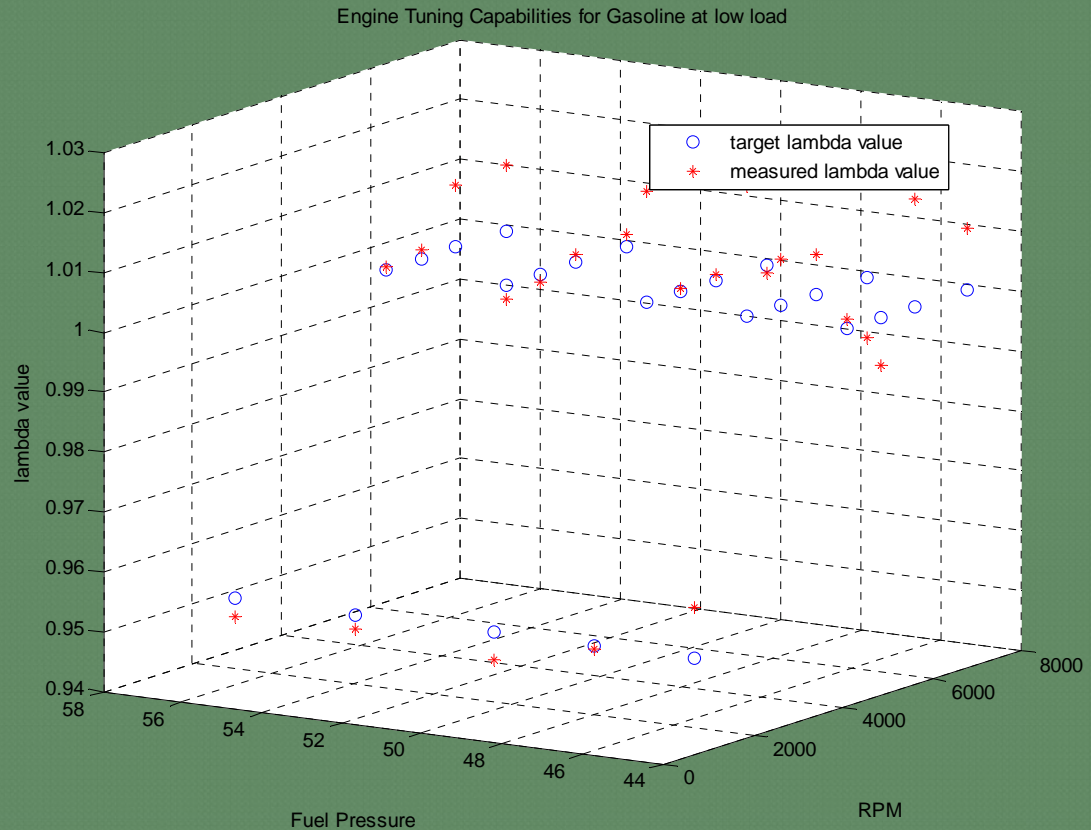
# Concentrations

---

- ◎ Flex-Fuel
- ◎ Exhaust
- ◎ Clutching
- ◎ Rear Suspension/Track
- ◎ Sound Reduction

# Flex Fuel Conversion

## ◎ Testing and verification



# Exhaust

---

- ◎ Improvement over last year's design
- ◎ Integration of a catalytic converter into the muffler without sacrificing noise reduction capabilities

	CO	UHC	NOx	UHC+ NOx	EPA Number
Clarkson's FST	115	0	3.78	4.25	178.4
MTU's FST	145	1	0.17	1.14	172.9
Cleanest 2-stroke	330	87	0.36	87.27	69.4

# Rear Suspension/Track

## ◎ AD Boivin ZX<sup>2</sup> Composite Rear Suspension & Camoplast Cobra Track

### ◎ Results:

- Lighter Weight
- Better Handling
- Quieter
  - 78 – 74dBA
- More Efficient
  - 13.76 to 14.8mpg
- Price Effective

### ◎ Studs

### ◎ Carbides



# Clutching

---

- ◎ Heel Clicker
- Adjustable Clutch
- Weights



# Noise Reduction

---

- ◎ Lizard Skin Sound Control

- ◎ Averaged 6dBA reduction in noise emissions at idle through body panels

- ◎ Rear Suspension & Track



# Questions?

---

