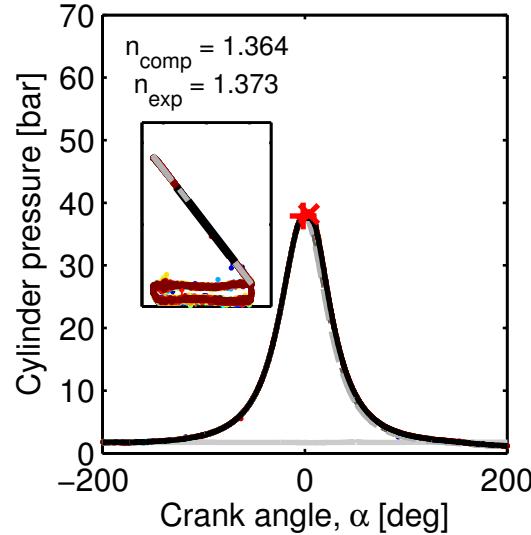


$$P_{\text{motor}} = 37.9 \pm 0.1 \quad \alpha_P = -1.6 \pm 0.3^\circ$$

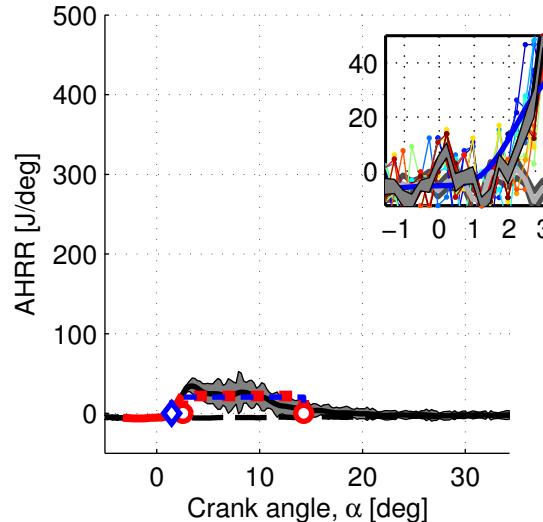
$$P_{\text{max}} = 38.2 \pm 0.2 \quad \alpha_P = 4.1 \pm 0.2^\circ$$



$$\alpha_{\text{AHRRmax}} = 6.1 \pm 1.6^\circ$$

$$\text{MEAHR} = 20.4 \text{--} 21.7 \text{ J/deg}$$

$$\text{DAHRR} = 1.64 \pm 0.04 \text{ ms}$$



Inj: Spray B hydr. delay $1.7 \pm 0.1 \text{ CAD}$
3 orifice, diameter = 0.09mm

Settings:
runname = 140502c
 $R_c = 9.93$
RPM = NaN
 $DSE = 799 \mu\text{s}$
 $SSE = 355.0 \text{ CAD}$

TDC conditions:
 $P = 37.90 \text{ bar}$
 $T = 911.3 \text{ K}$
 $\rho = 14.20 \text{ kg/m}^3$
 $Z = 1.010$
 $S = 6900.0 \text{ J/K/kg}$

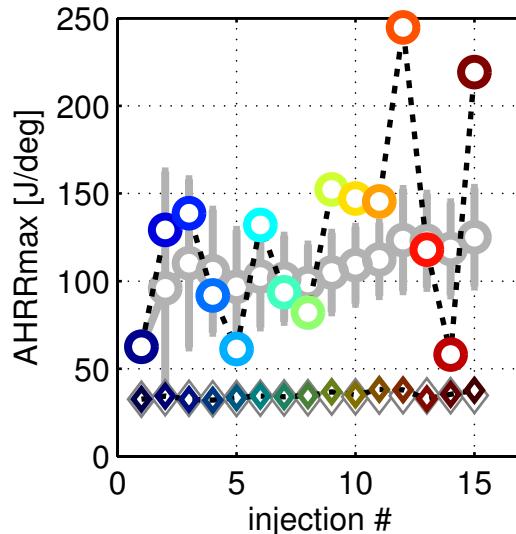
Inlet conditions:
 $T = 134.0^\circ \text{ C}$
 $Q_{\text{air}} = \text{NaN g/s}$
Fuel:
n-dodecane
 $P_{\text{rail}} = 1500 \pm 6 \text{ bar}$

BDC conditions:
 $P = 1.75 \text{ bar}$
 $T = 121.5^\circ \text{ C}$
 $\rho = 1.53 \text{ kg/m}^3$
 $Z = 1.000$
 $S = 6900.0 \text{ J/K/kg}$

Ambient gasses:
 $\%O_2 = 15.0$ (1.0mol Air + 0.4mol N₂)
 $M_{\text{air}} = 28.95 \text{ g/mol}; M_{fg} = 28.68 \text{ g/mol}$

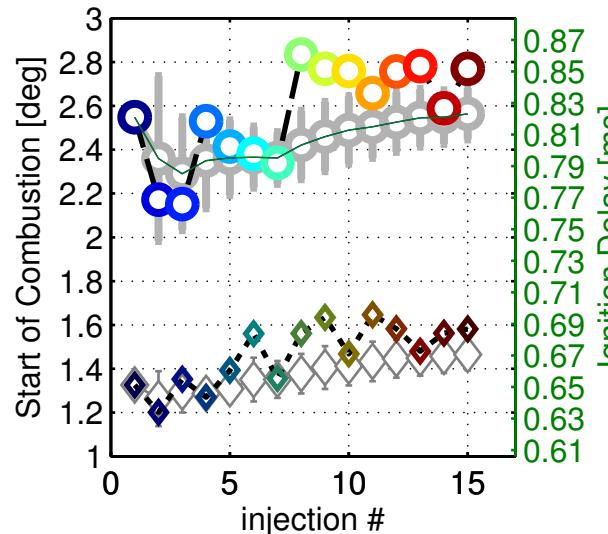
$$\langle \text{AHRR}_{\text{max}} \rangle = 125 \pm 20$$

$$\langle \text{AHRRfilt}_{\text{max}} \rangle = 35 \pm 1$$

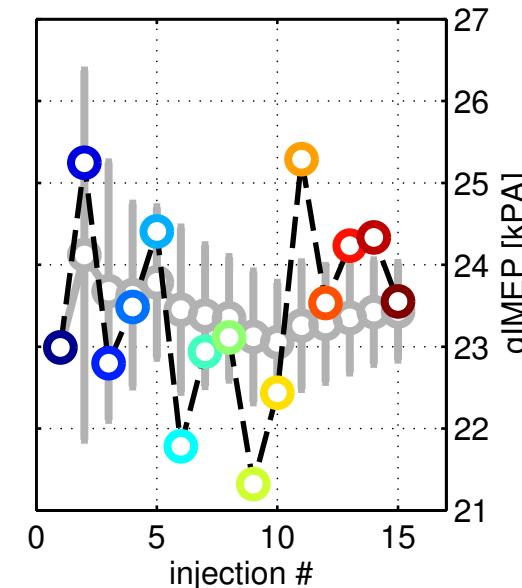


$$\langle \text{SOC} \rangle = 2.6 \pm 0.1^\circ \quad \langle \text{SOC}_{\text{filt}} \rangle = 1.5^\circ$$

$$\langle \text{ID} \rangle = 0.82 \pm 0.01 \quad \langle \text{ID}_{\text{filt}} \rangle = 0.67$$



$$\langle \text{gIMEP} \rangle = 23.4 \pm 2$$



—○— running mean and 95% conf. interv —◇— filtered data running mean and 95% CI - - - measured value