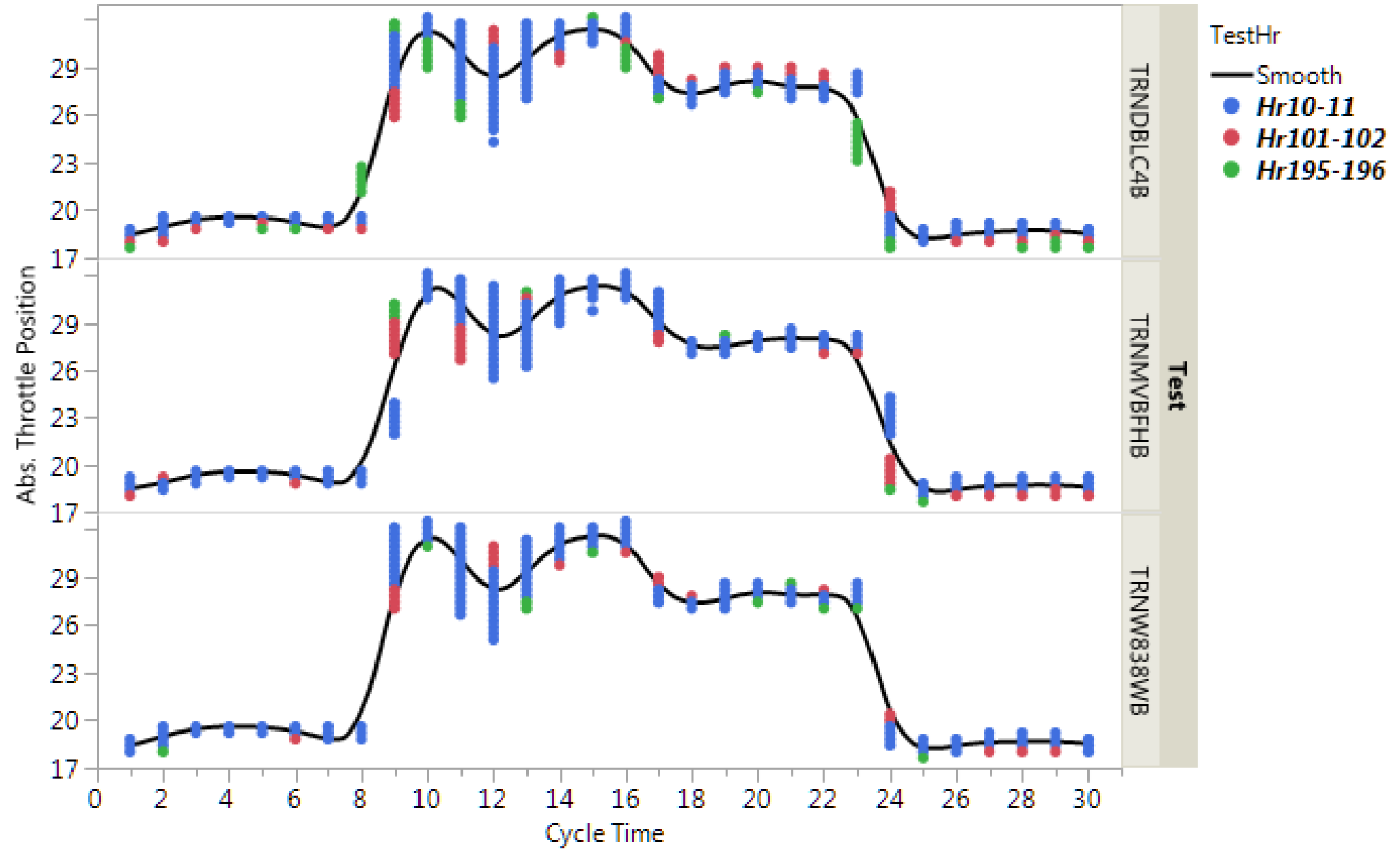


Lz Lab Operational Plots

By: Stats Group

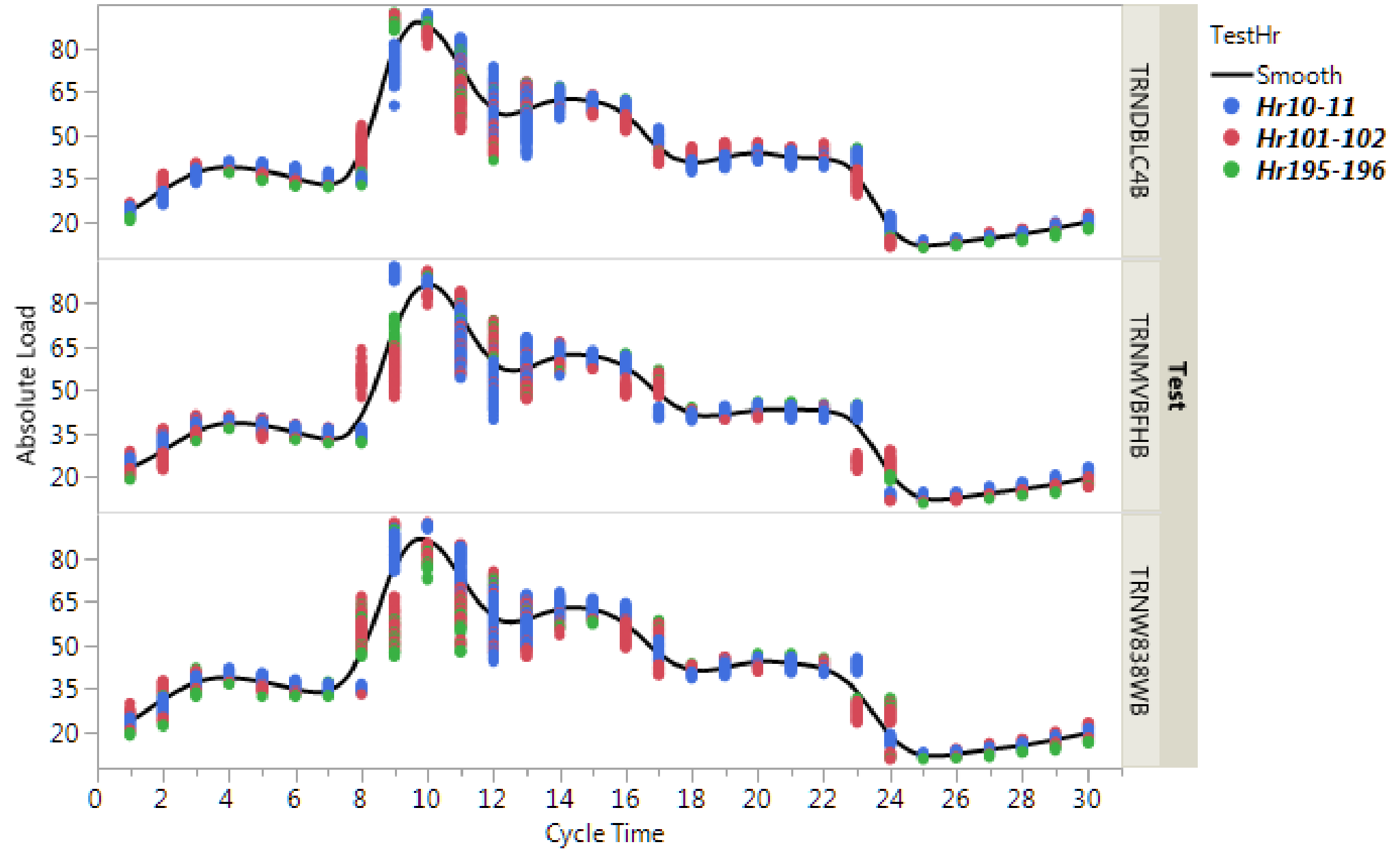
02-28-18

Abs. Throttle Position vs. Cycle Time



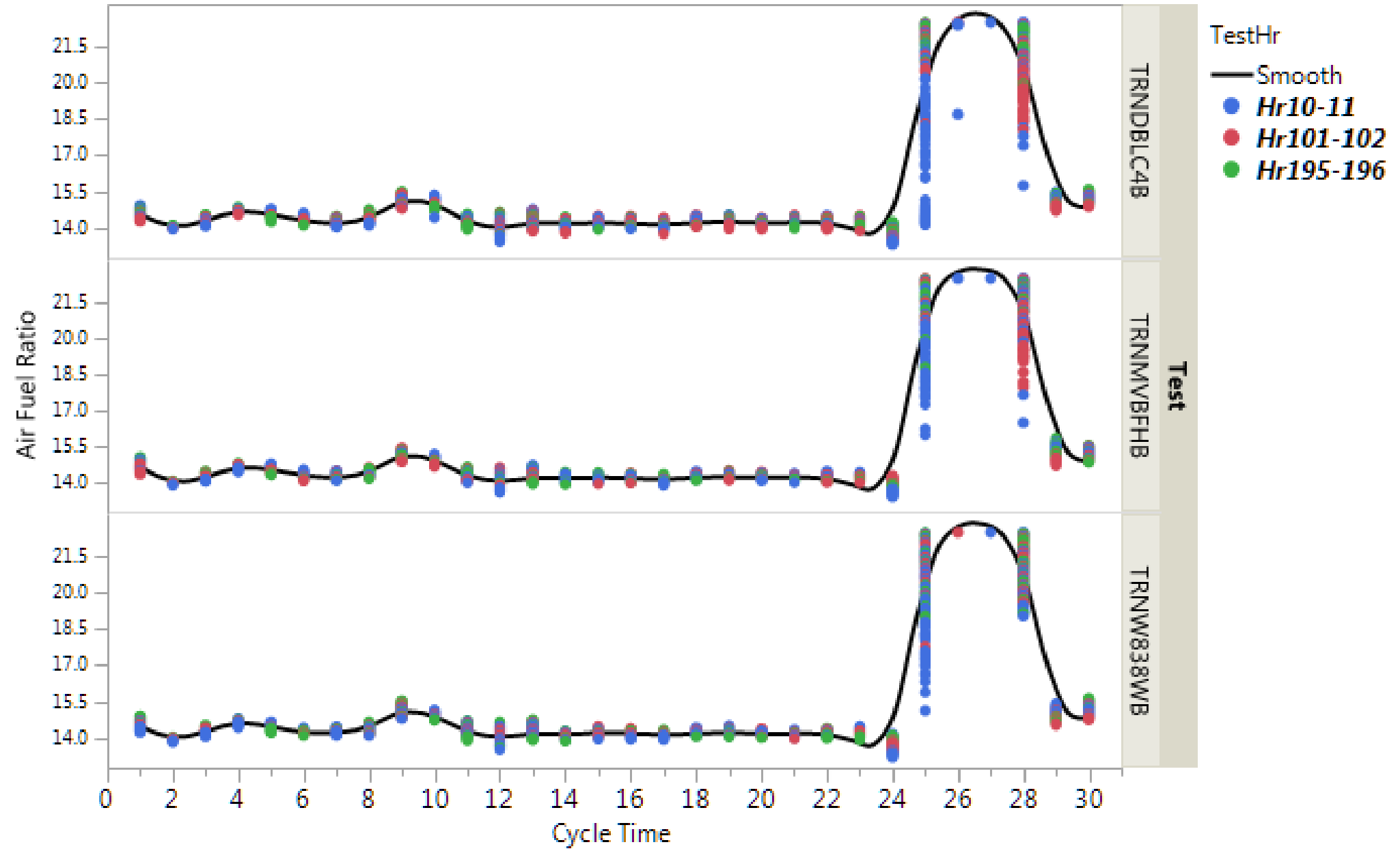
Where(LAB = Lubrizol)

Absolute Load vs. Cycle Time



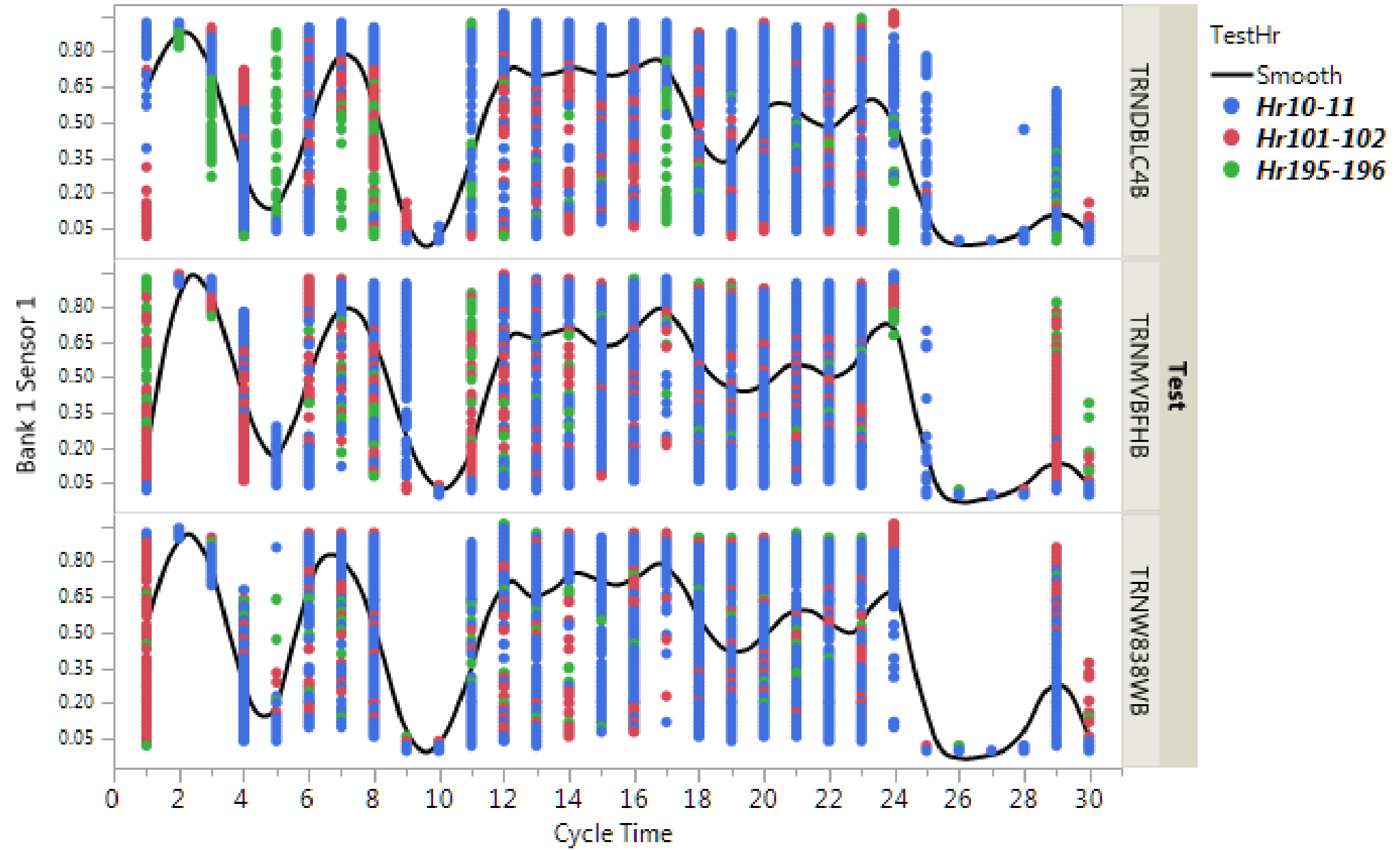
Where(LAB = Lubrizol)

Air Fuel Ratio vs. Cycle Time



Where(LAB = Lubrizol)

Bank 1 Sensor 1 vs. Cycle Time



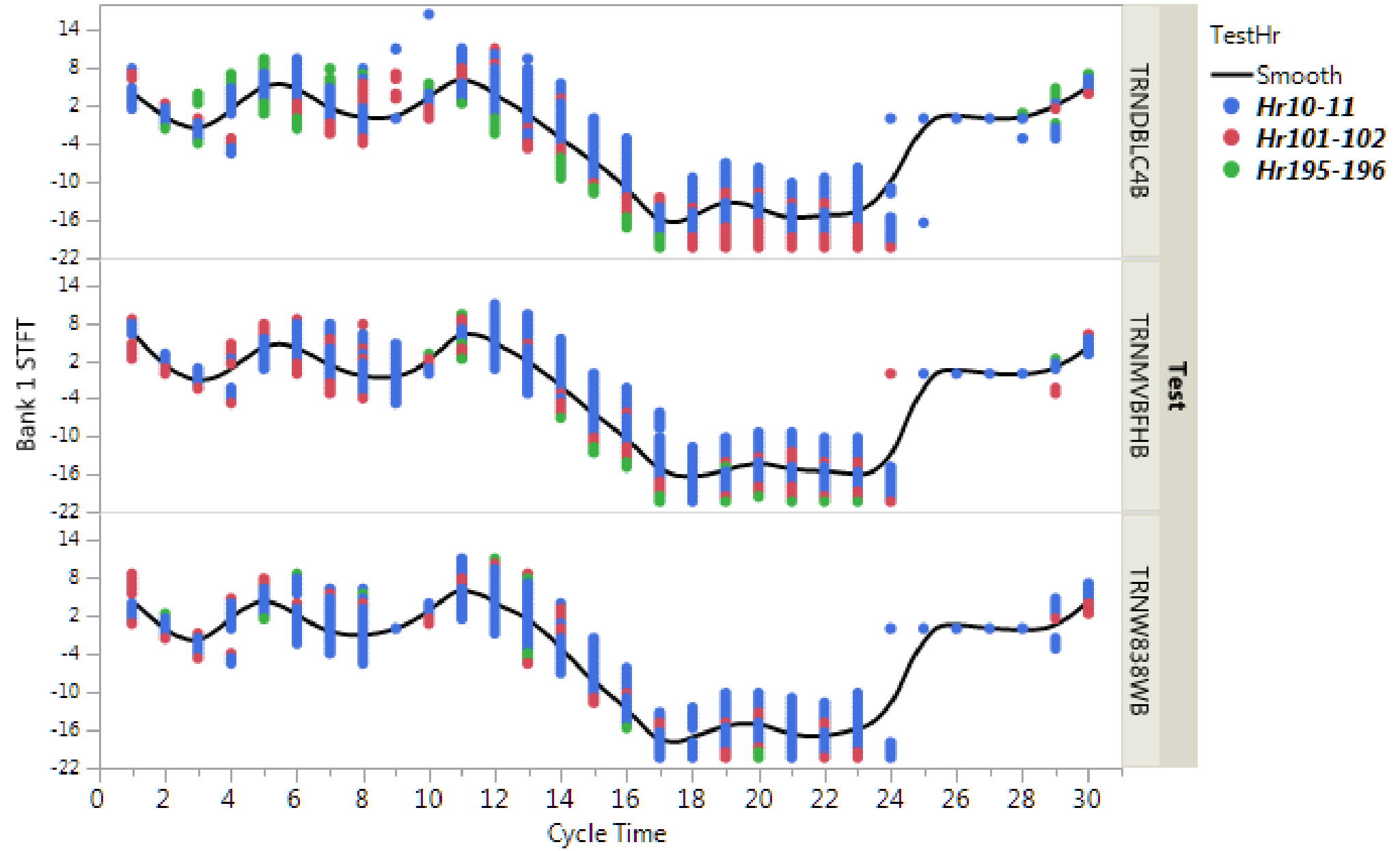
TestHr
— Smooth
● Hr10-11
● Hr101-102
● Hr195-196

TRNDBLCAB
TRNMVBFHB
TRNW838WB

Test

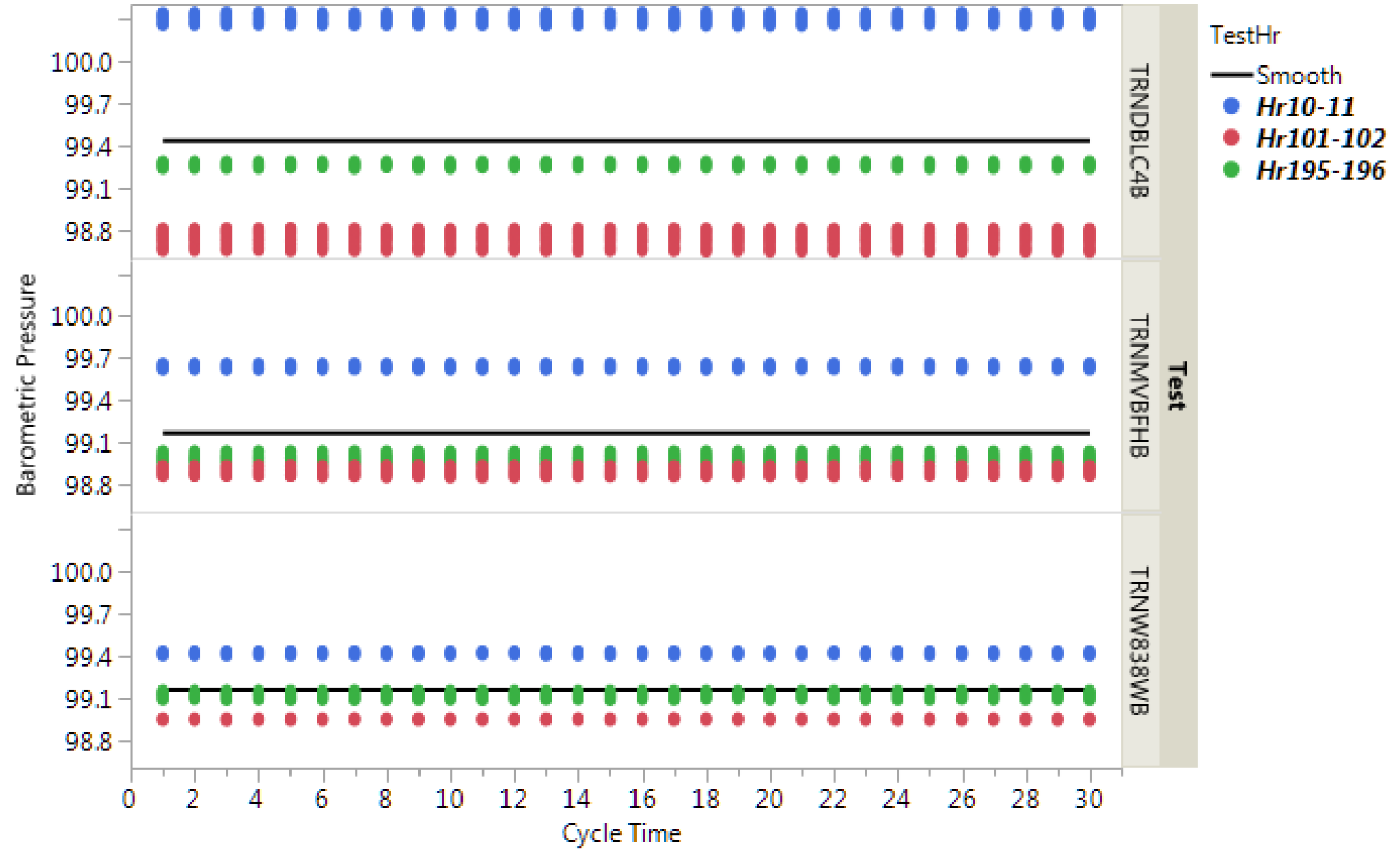
Where(LAB = Lubrizol)

Bank 1 STFT vs. Cycle Time



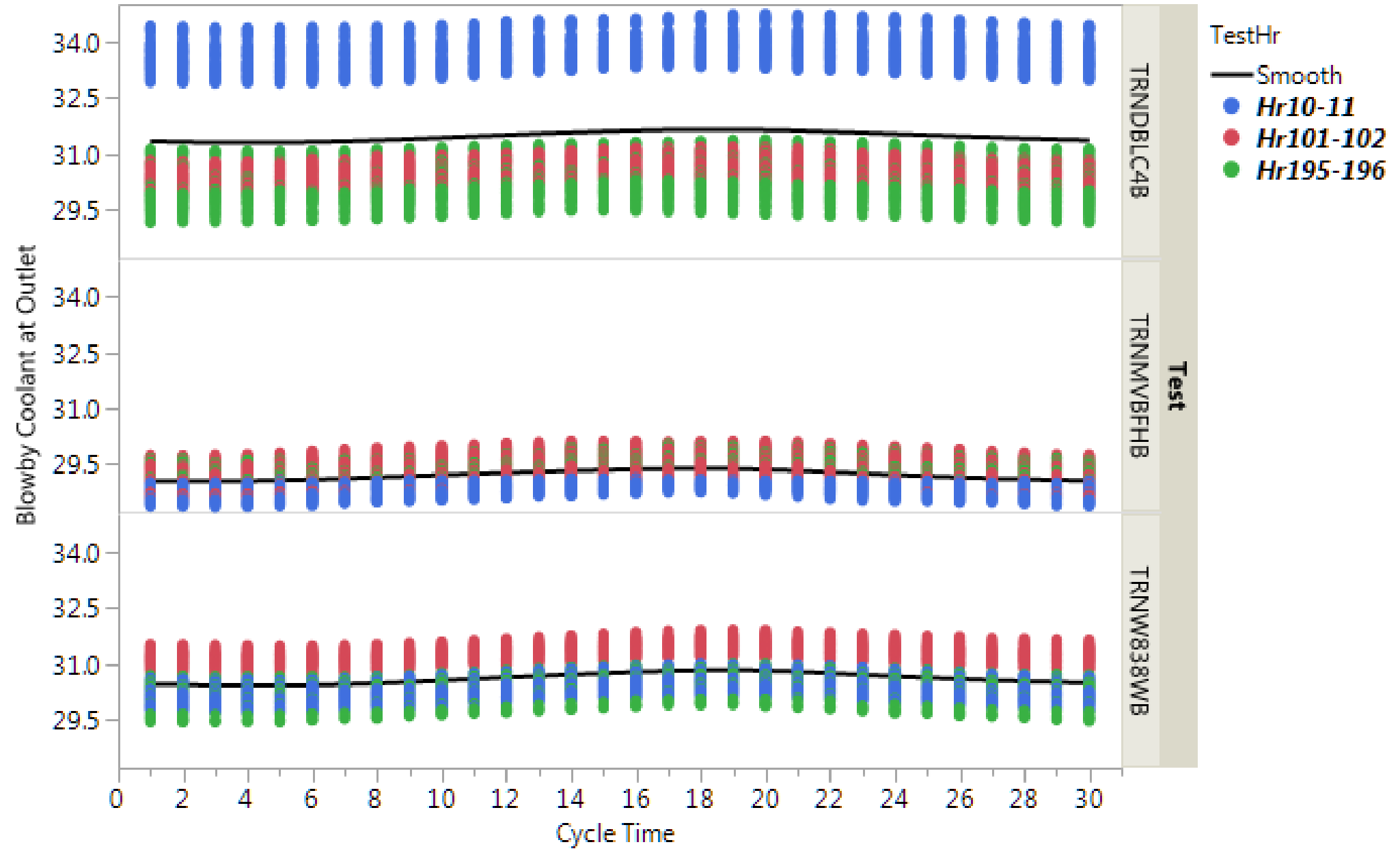
Where(LAB = Lubrizol)

Barometric Pressure vs. Cycle Time



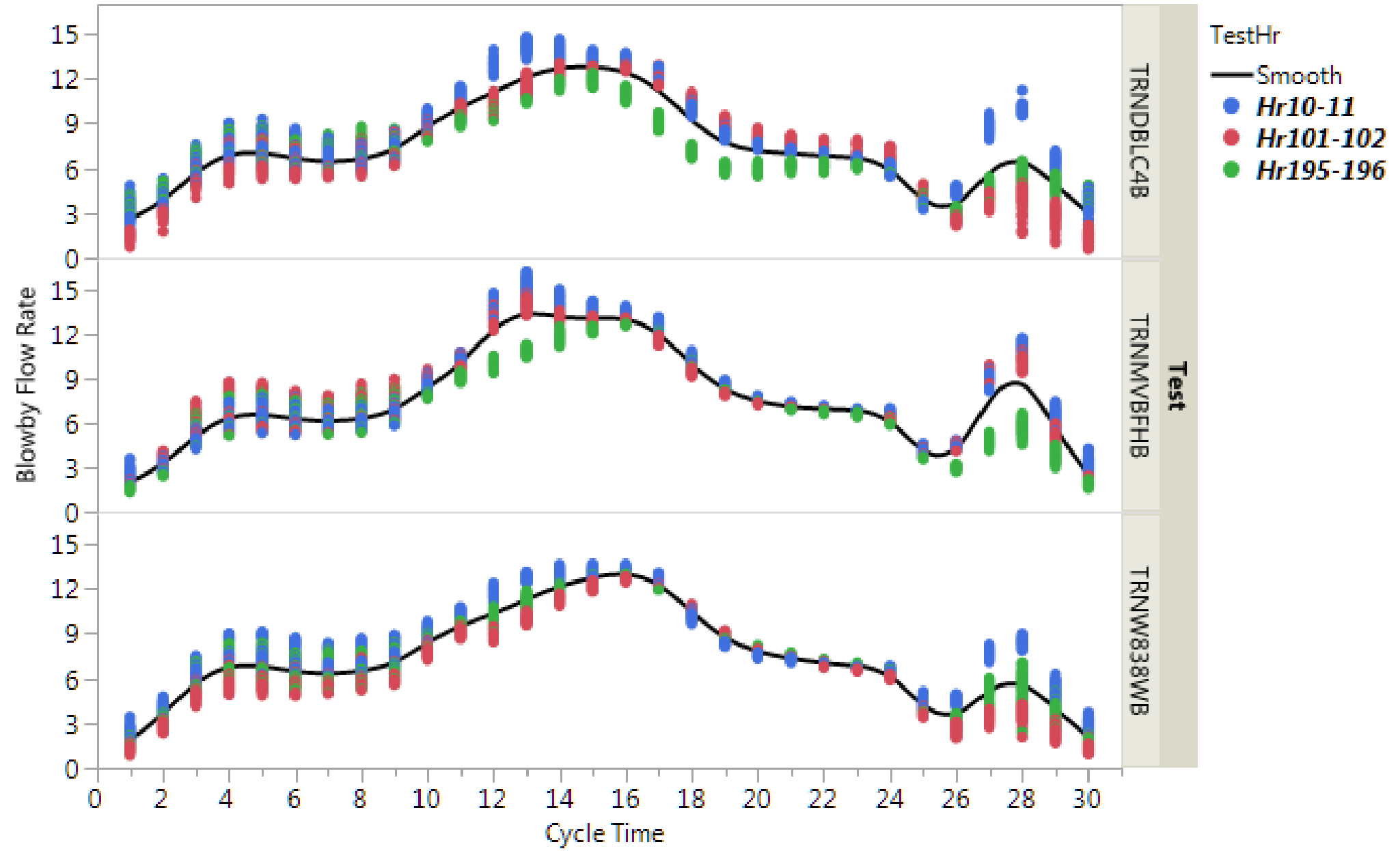
Where(LAB = Lubrizol)

Blowby Coolant at Outlet vs. Cycle Time



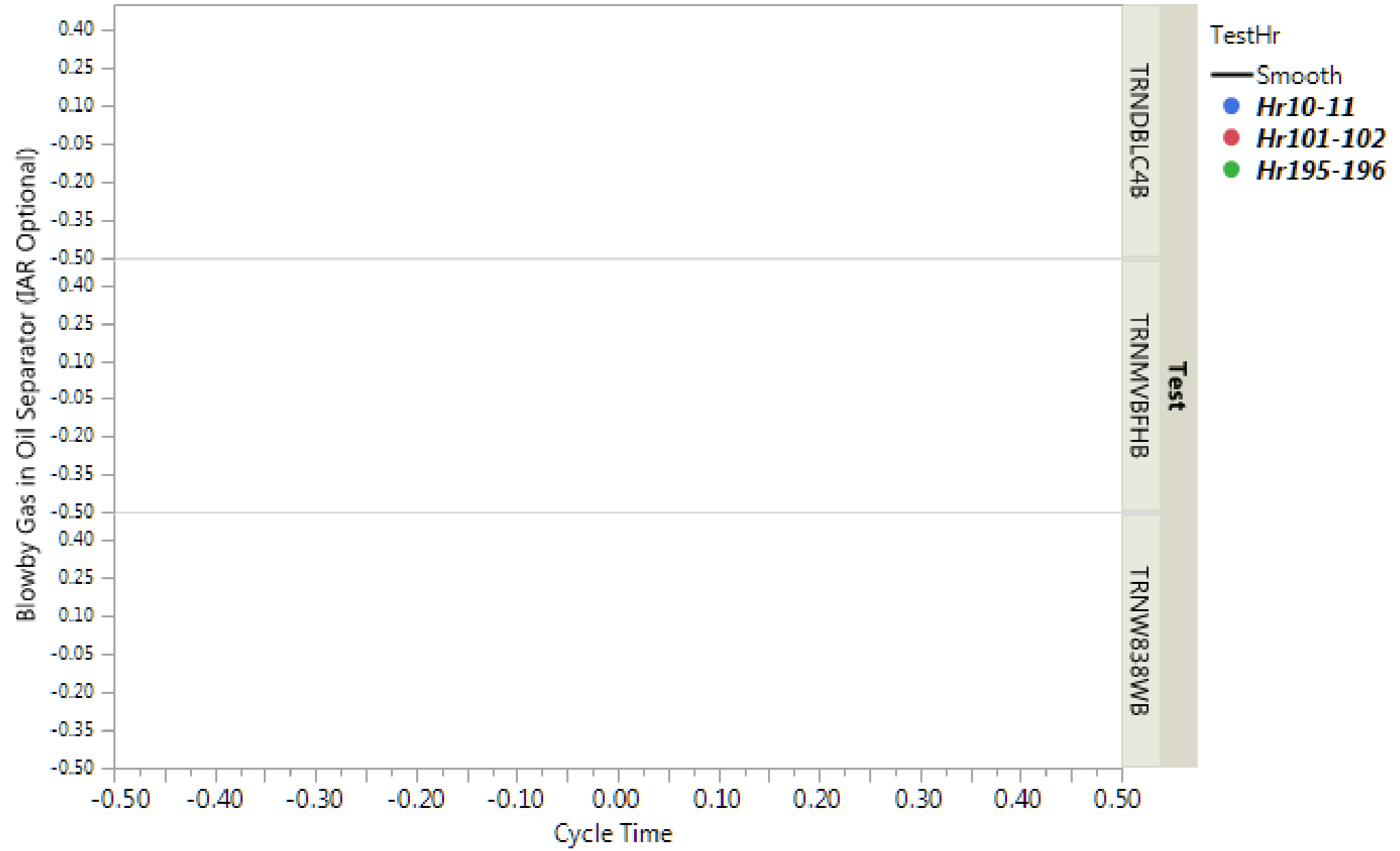
Where(LAB = Lubrizol)

Blowby Flow Rate vs. Cycle Time



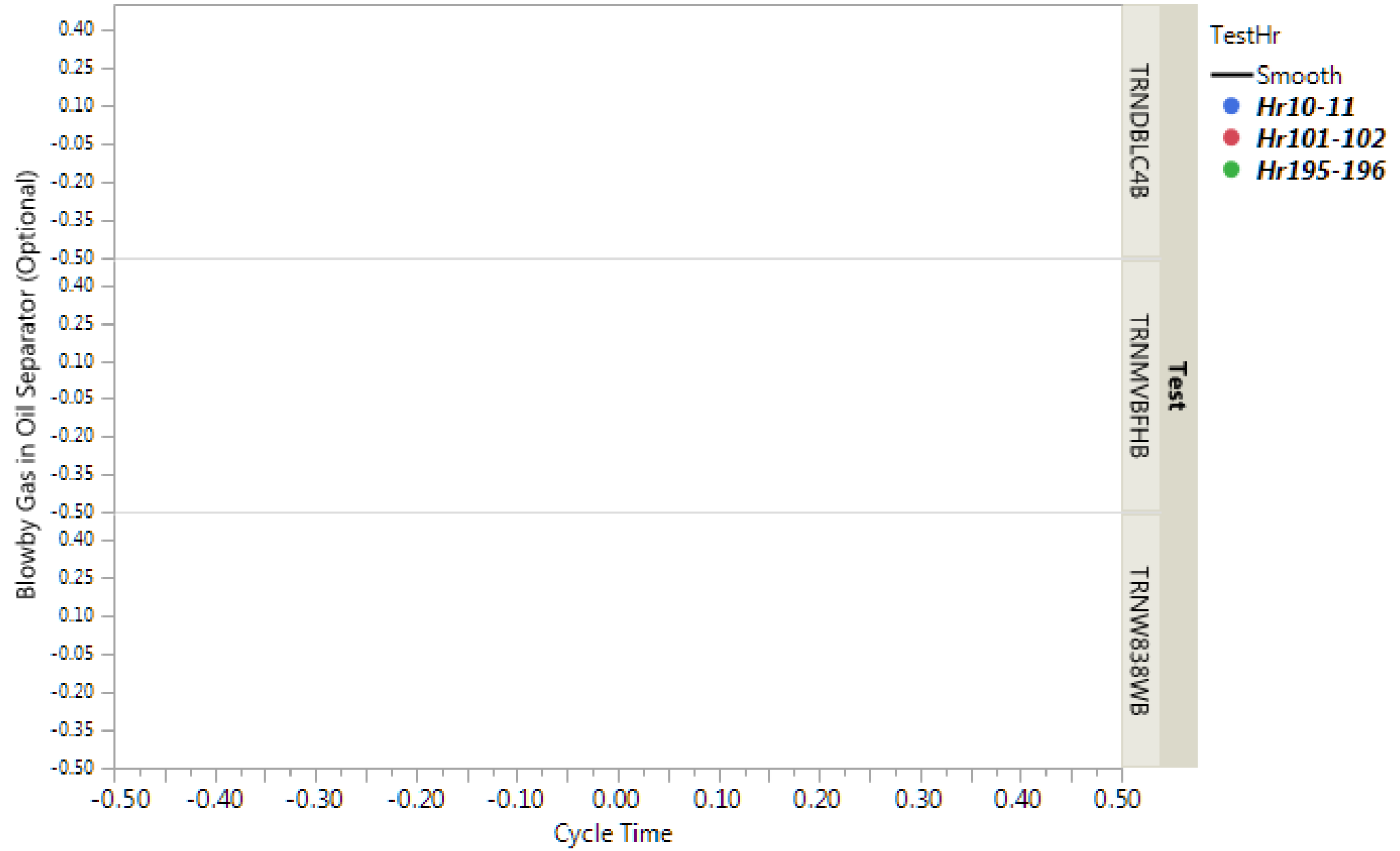
Where(LAB = Lubrizol)

Blowby Gas in Oil Separator (IAR Optional) vs. Cycle Time



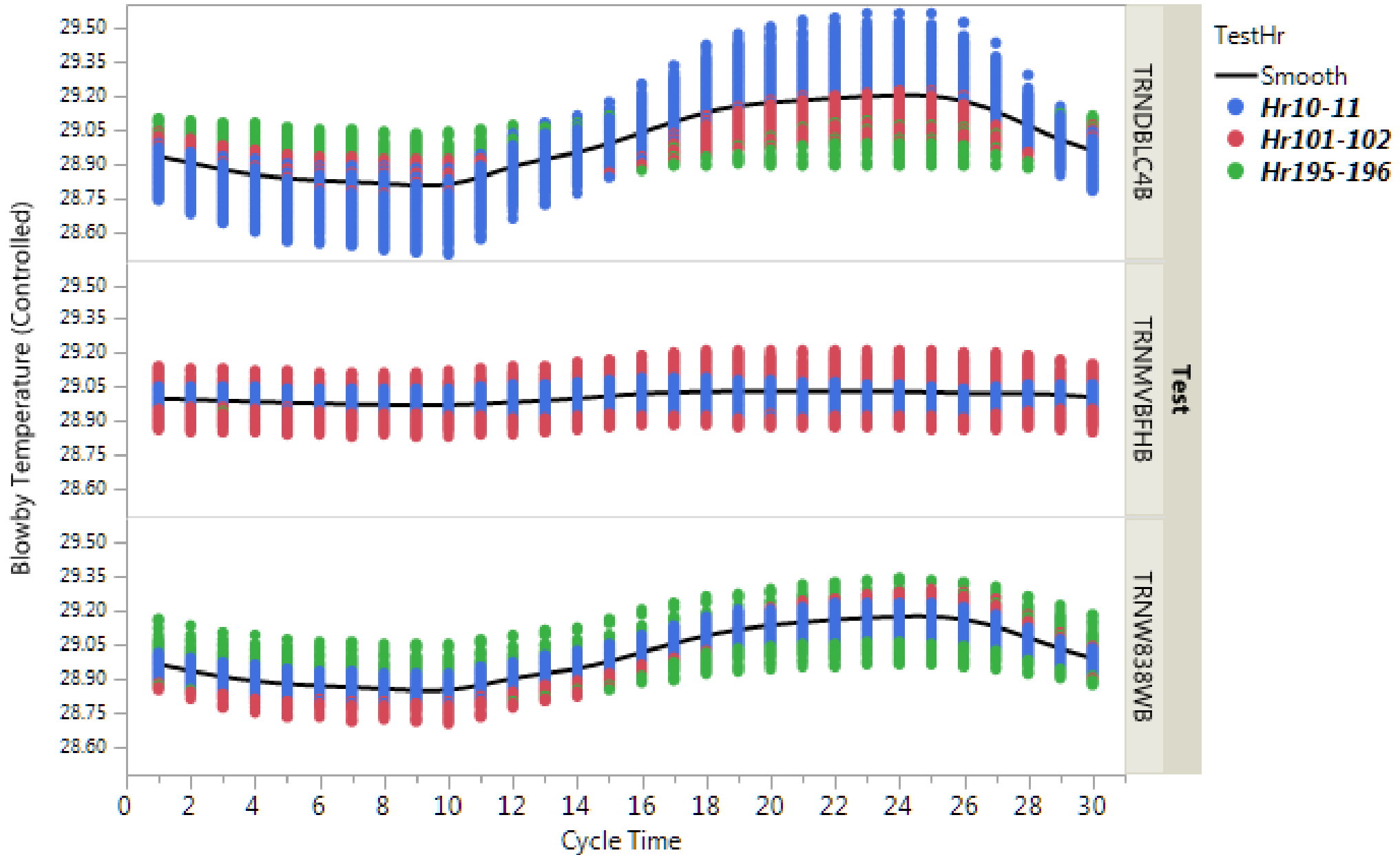
Where(LAB = Lubrizol)

Blowby Gas in Oil Separator (Optional) vs. Cycle Time



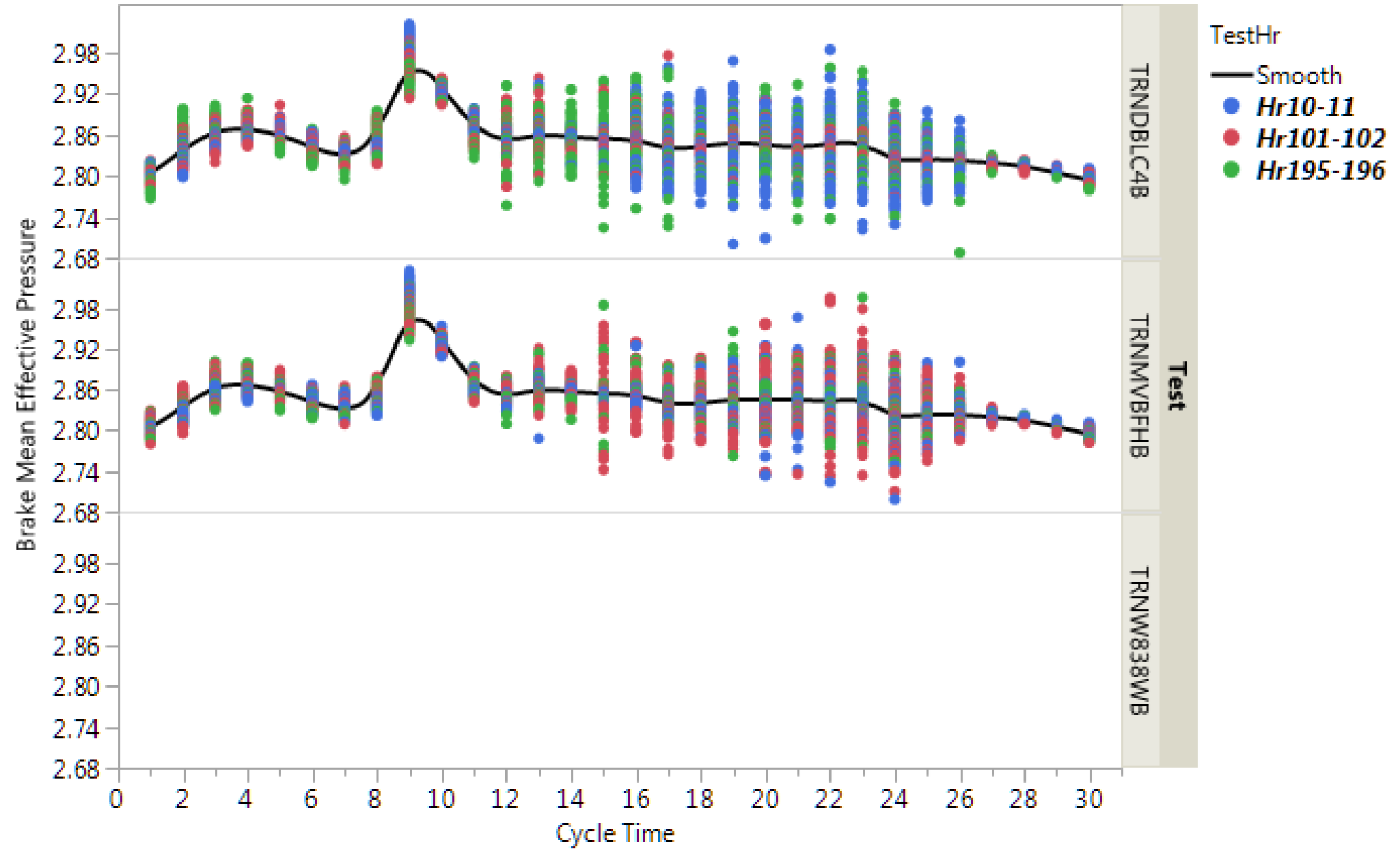
Where(LAB = Lubrizol)

Blowby Temperature (Controlled) vs. Cycle Time



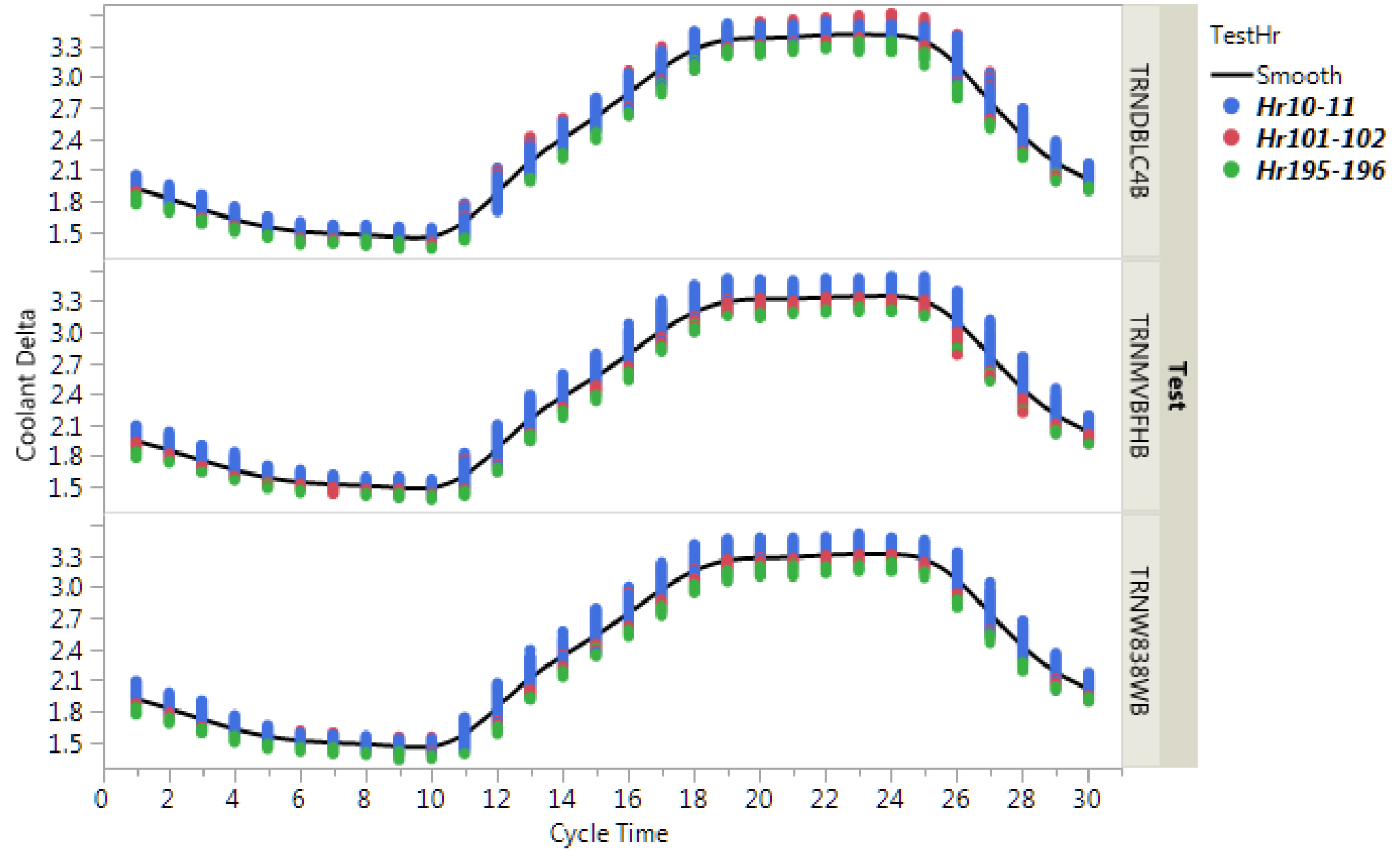
Where(LAB = Lubrizol)

Brake Mean Effective Pressure vs. Cycle Time



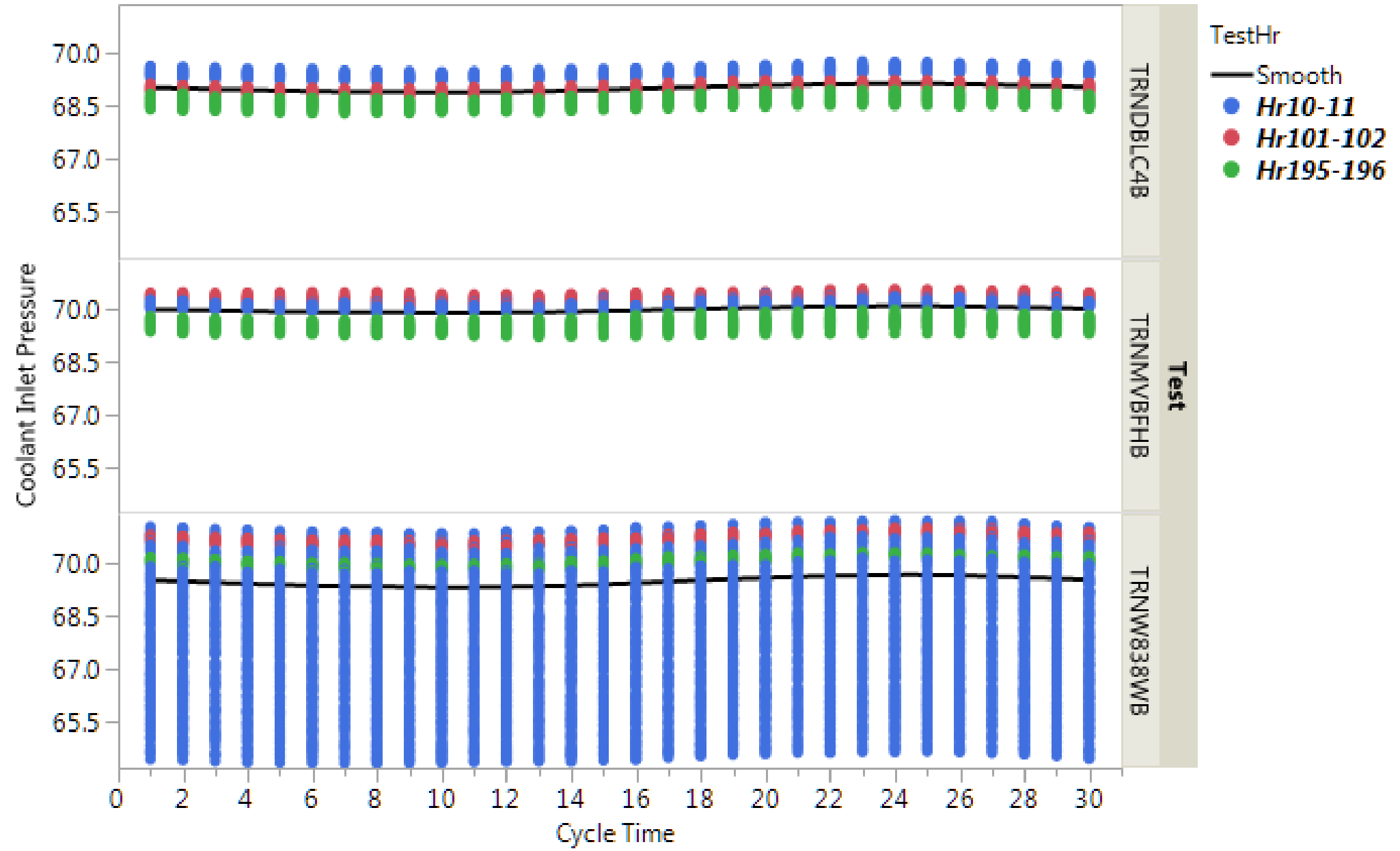
Where(LAB = Lubrizol)

Coolant Delta vs. Cycle Time



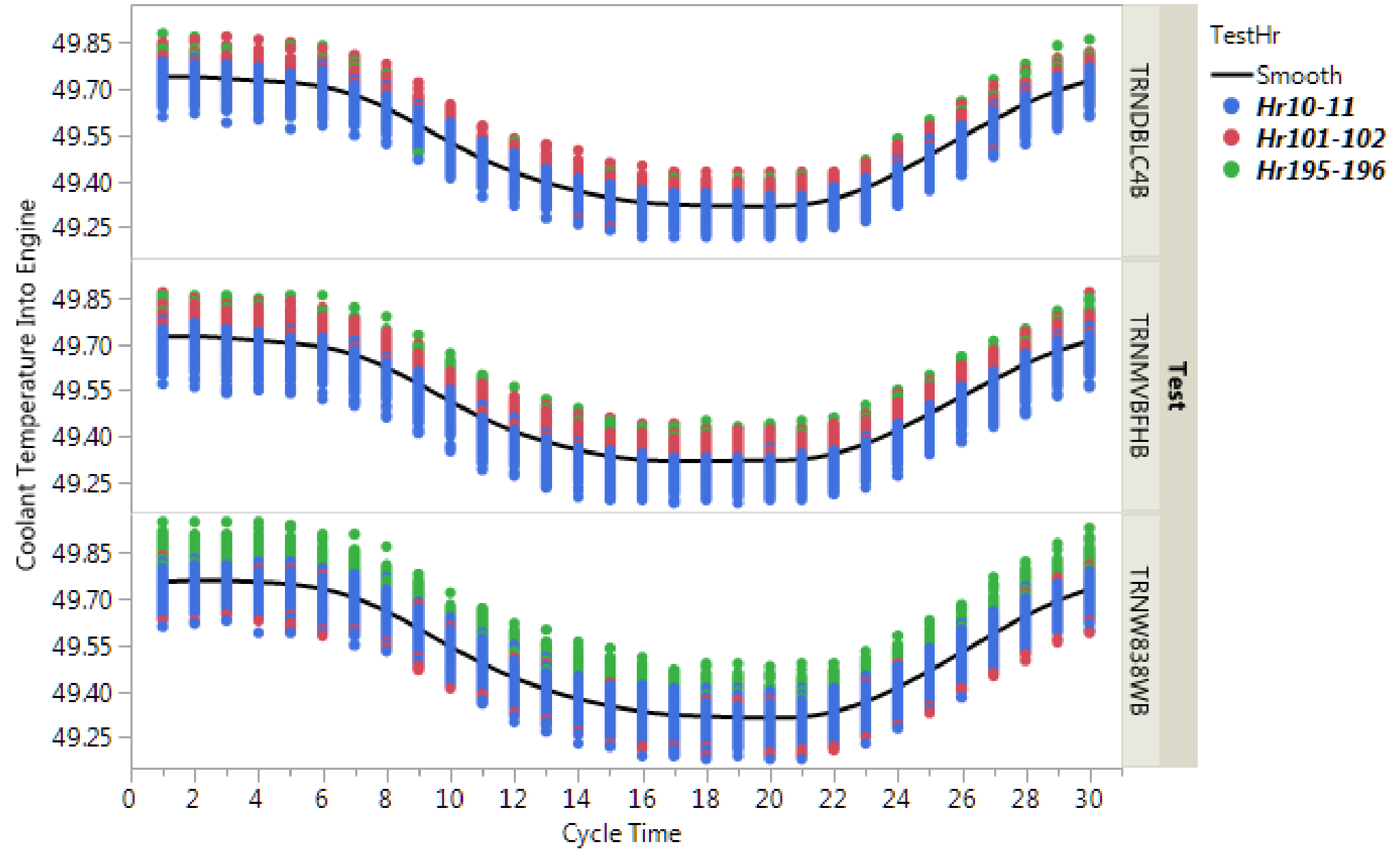
Where(LAB = Lubrizol)

Coolant Inlet Pressure vs. Cycle Time



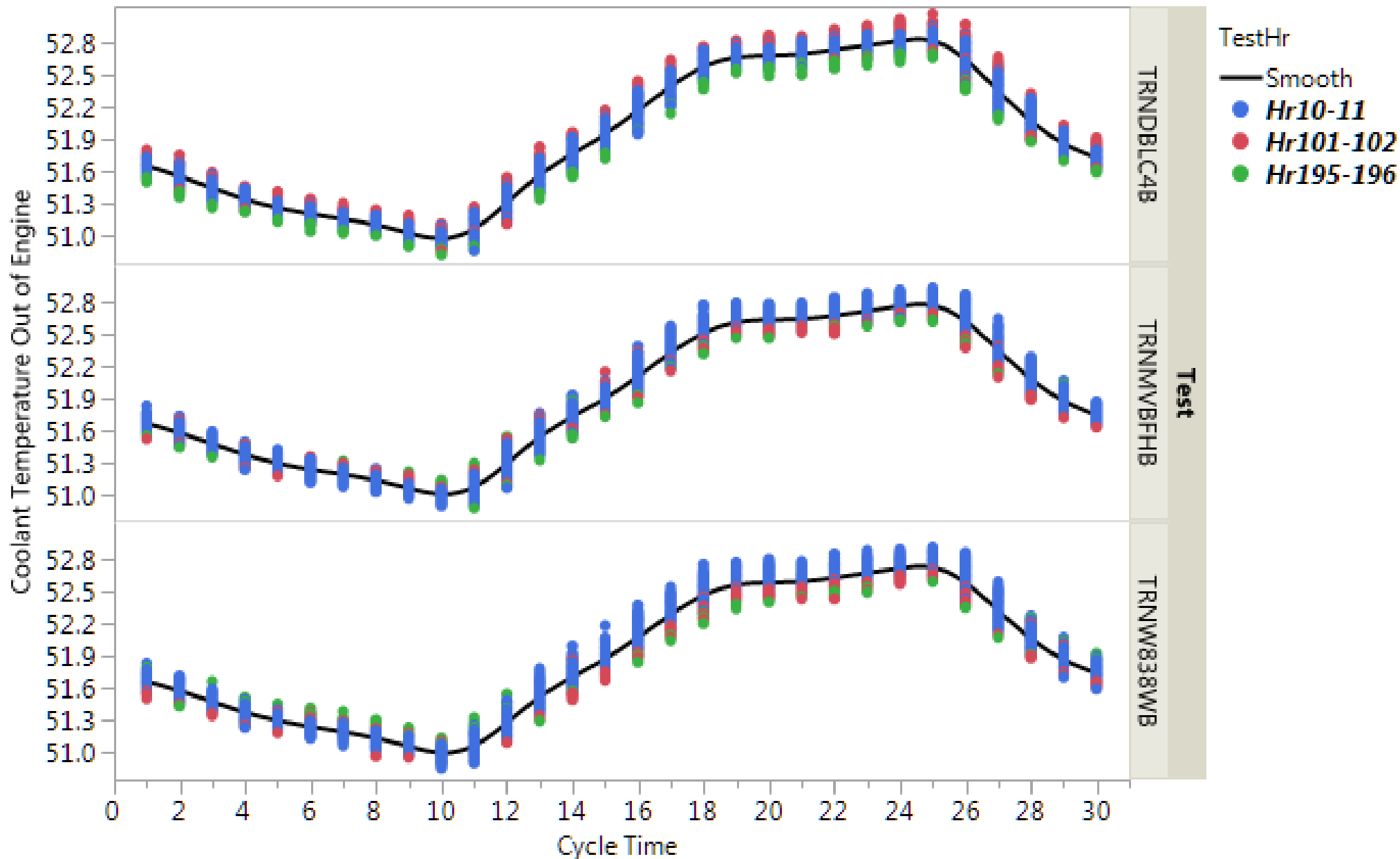
Where(LAB = Lubrizol)

Coolant Temperature Into Engine vs. Cycle Time



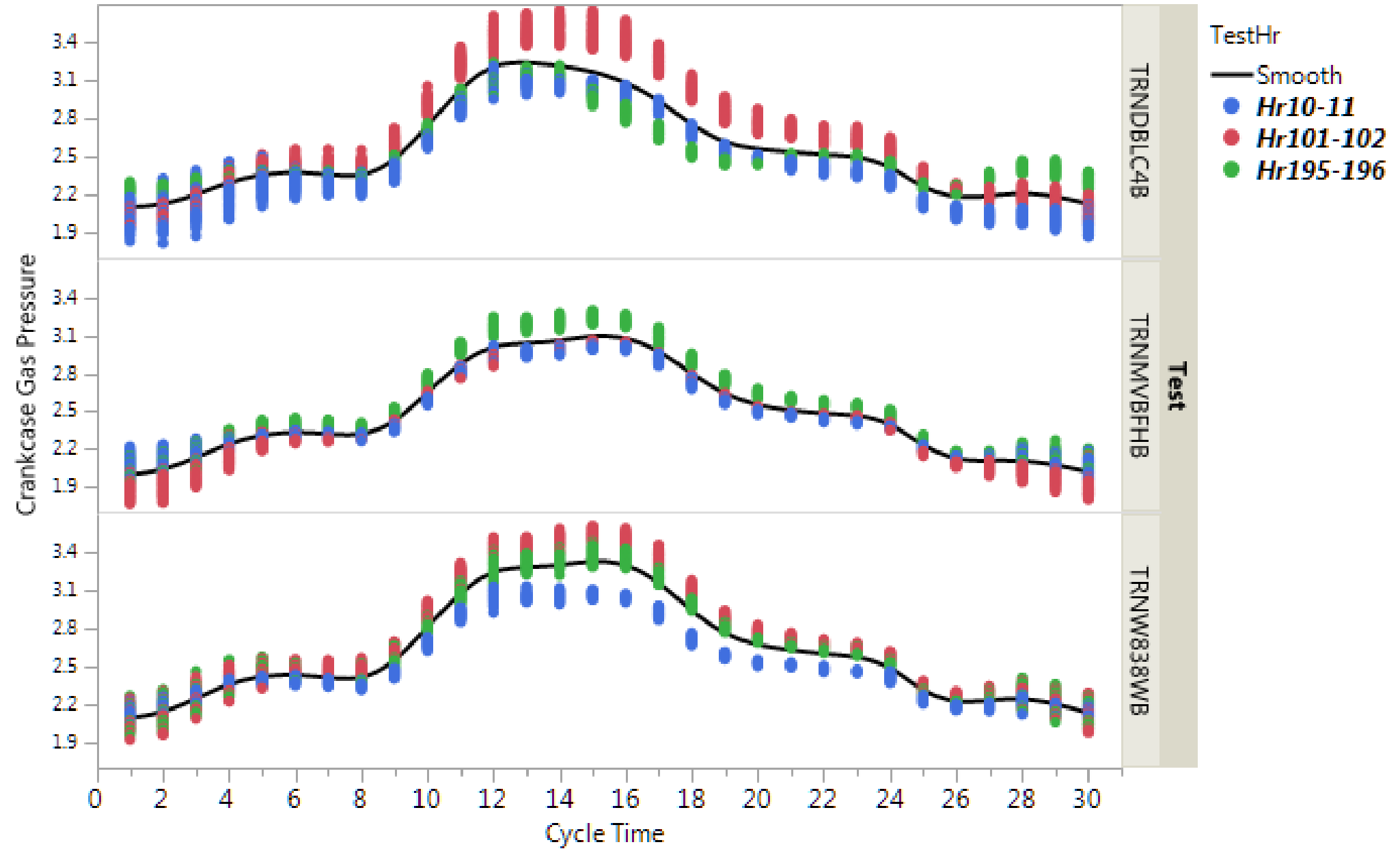
Where(LAB = Lubrizol)

Coolant Temperature Out of Engine vs. Cycle Time



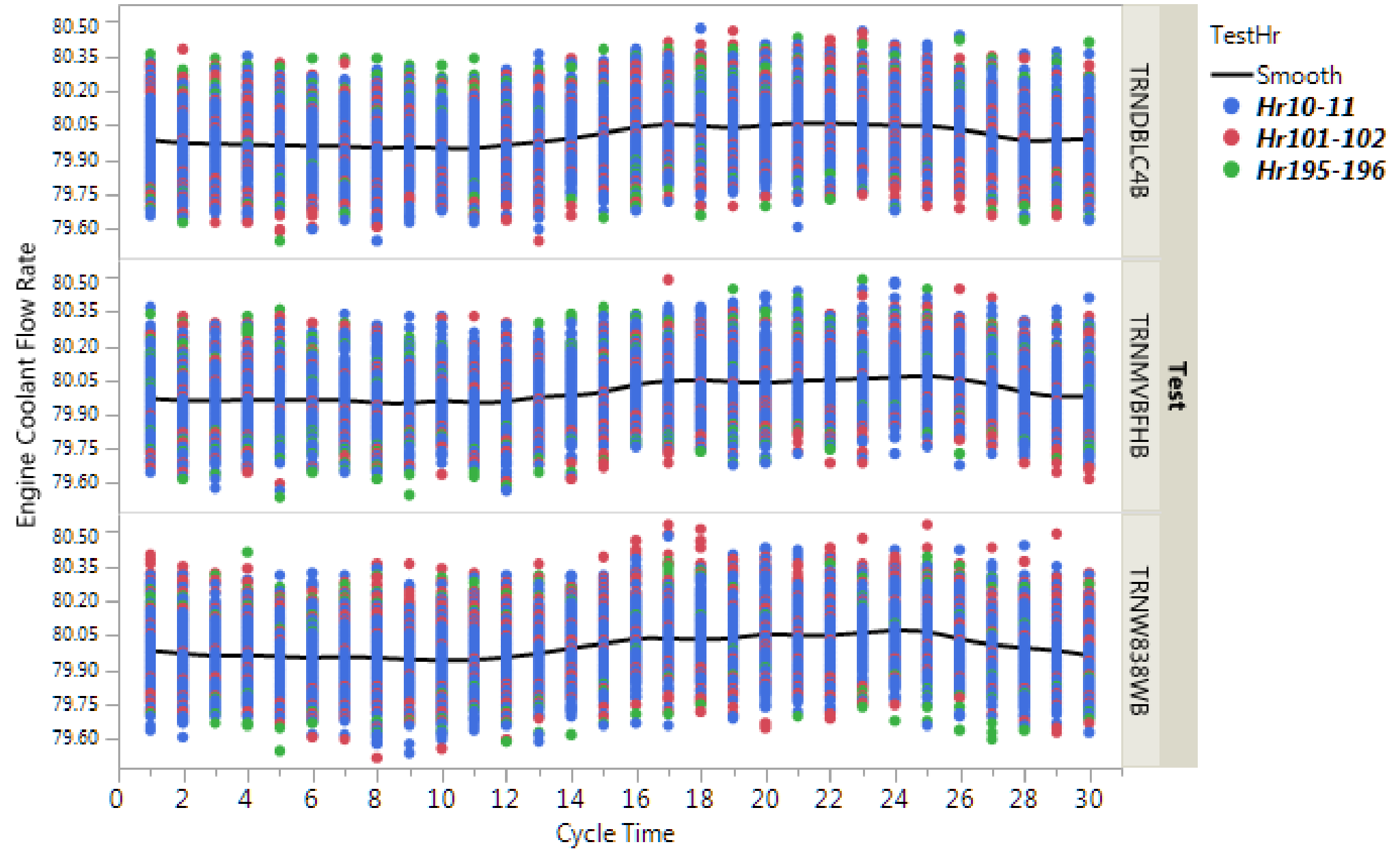
Where(LAB = Lubrizol)

Crankcase Gas Pressure vs. Cycle Time



Where(LAB = Lubrizol)

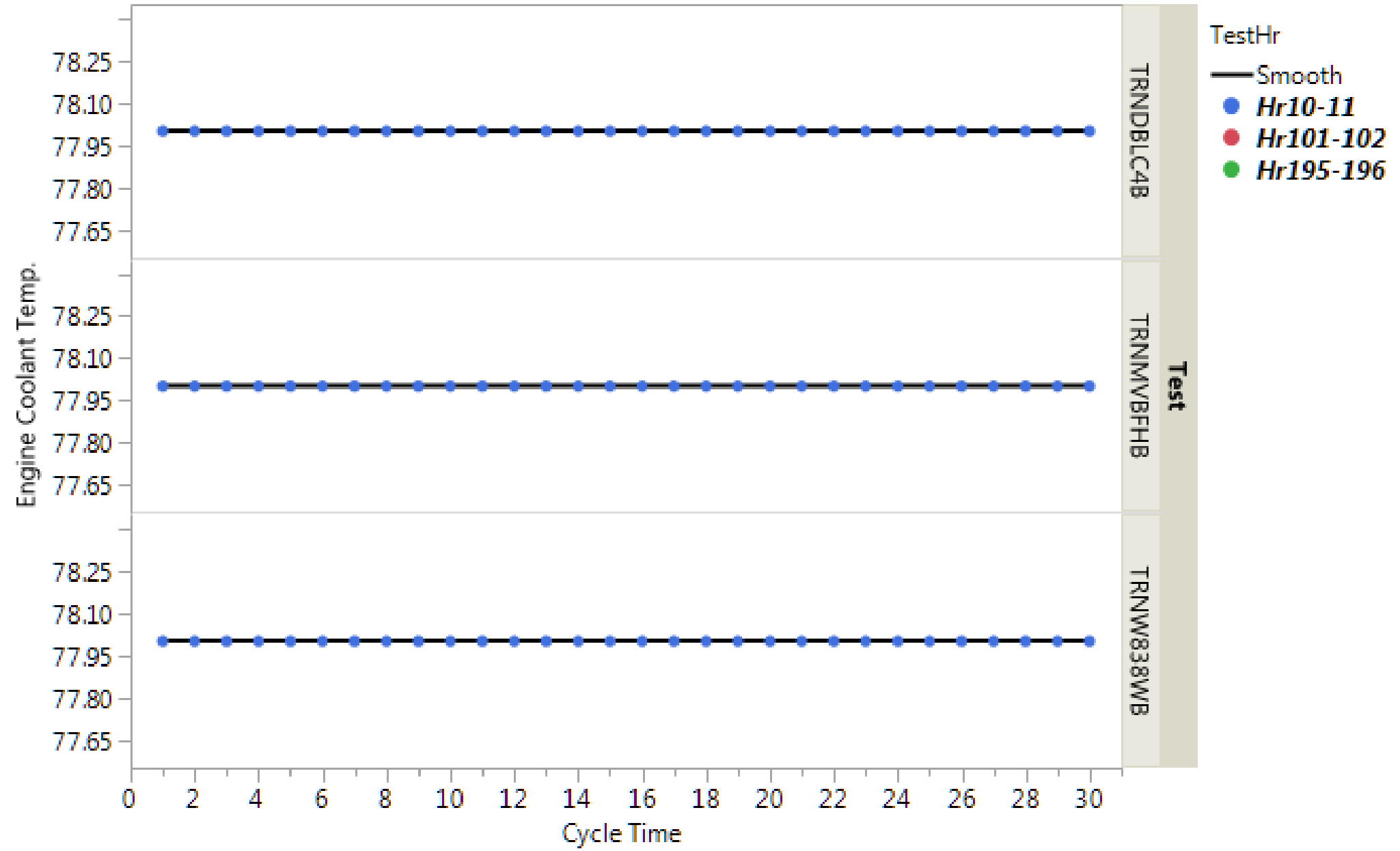
Engine Coolant Flow Rate vs. Cycle Time



TestHr
— Smooth
● Hr10-11
● Hr101-102
● Hr195-196

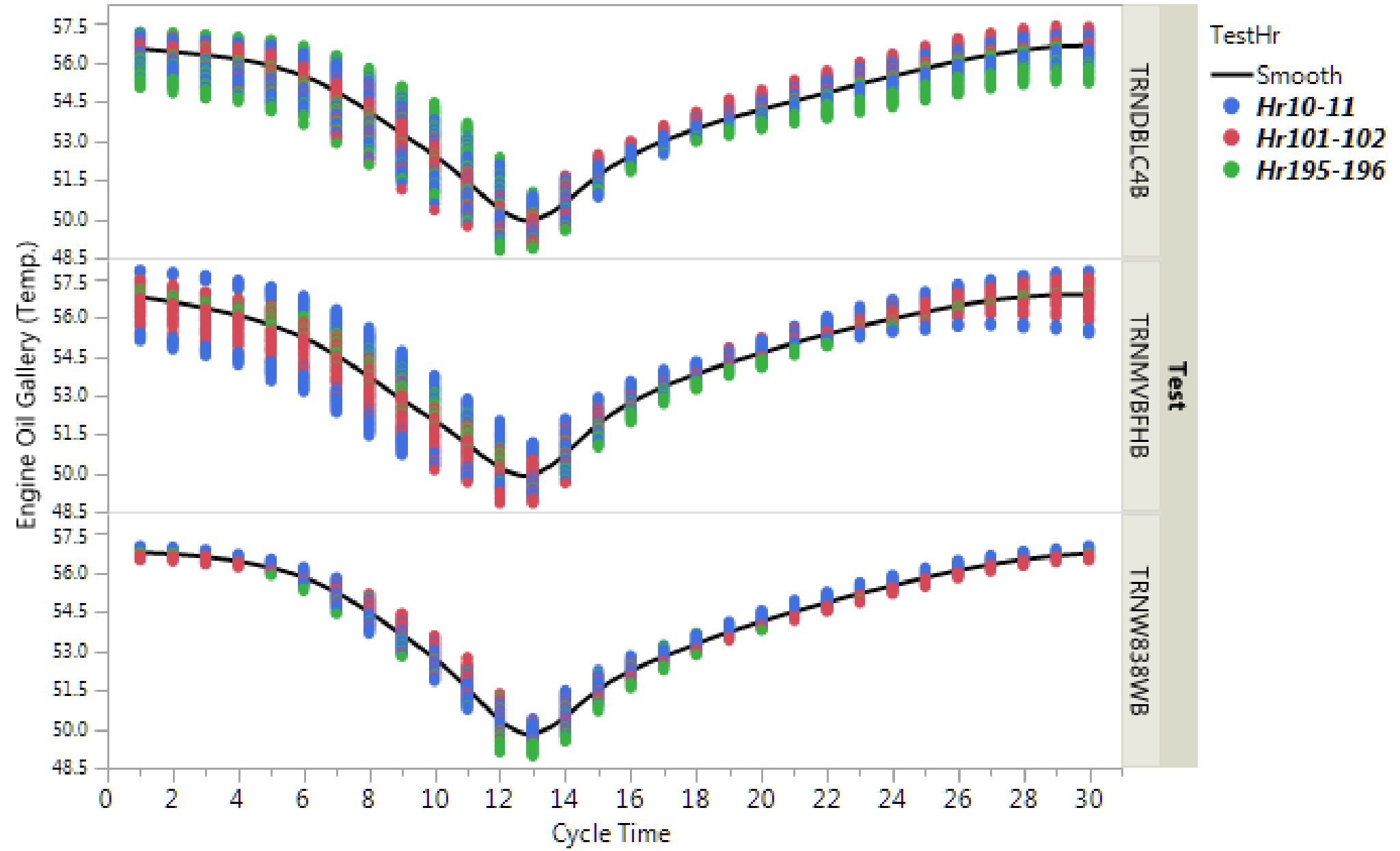
Where(LAB = Lubrizol)

Engine Coolant Temp. vs. Cycle Time



Where(LAB = Lubrizol)

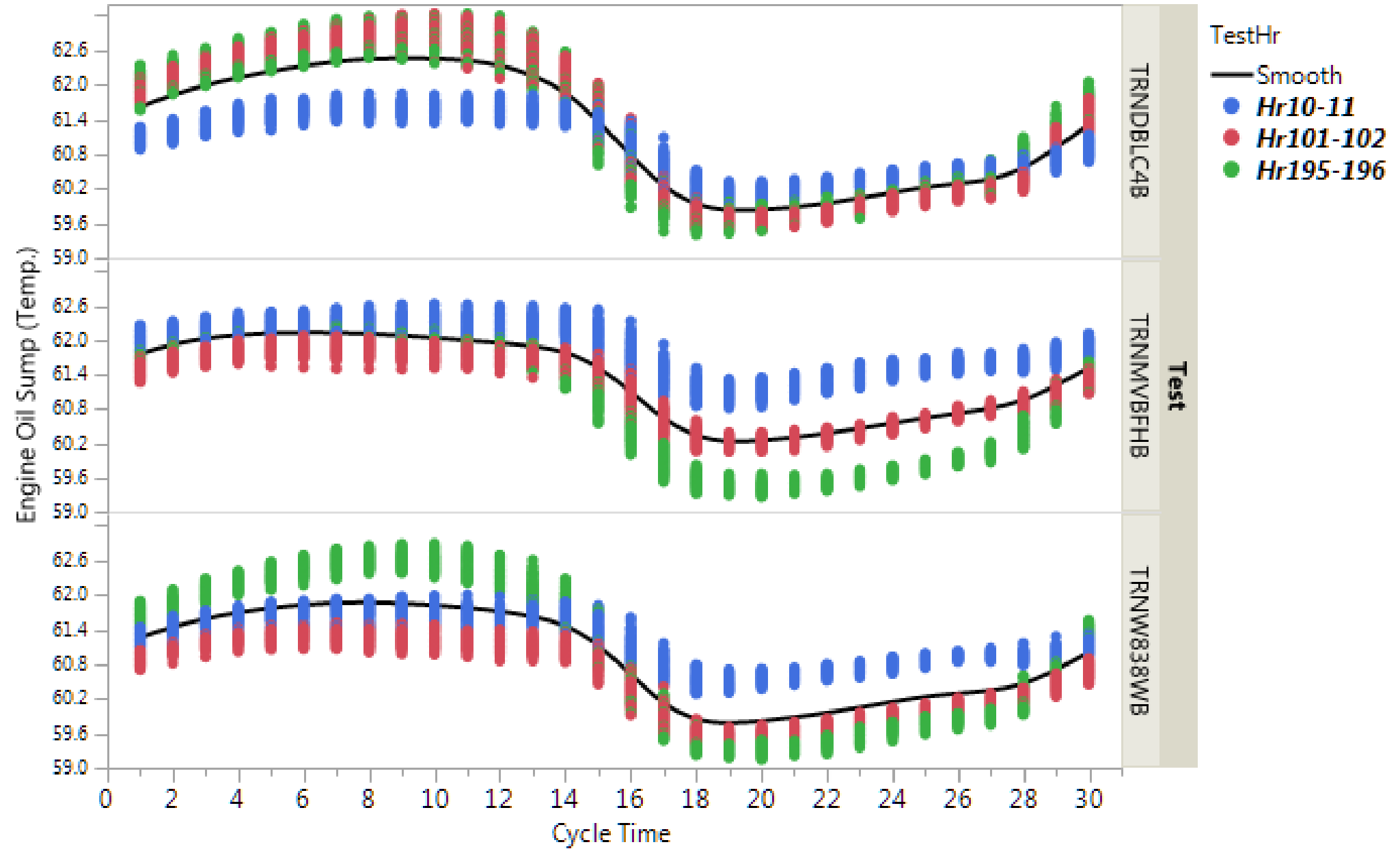
Engine Oil Gallery (Temp.) vs. Cycle Time



Where(LAB = Lubrizol)

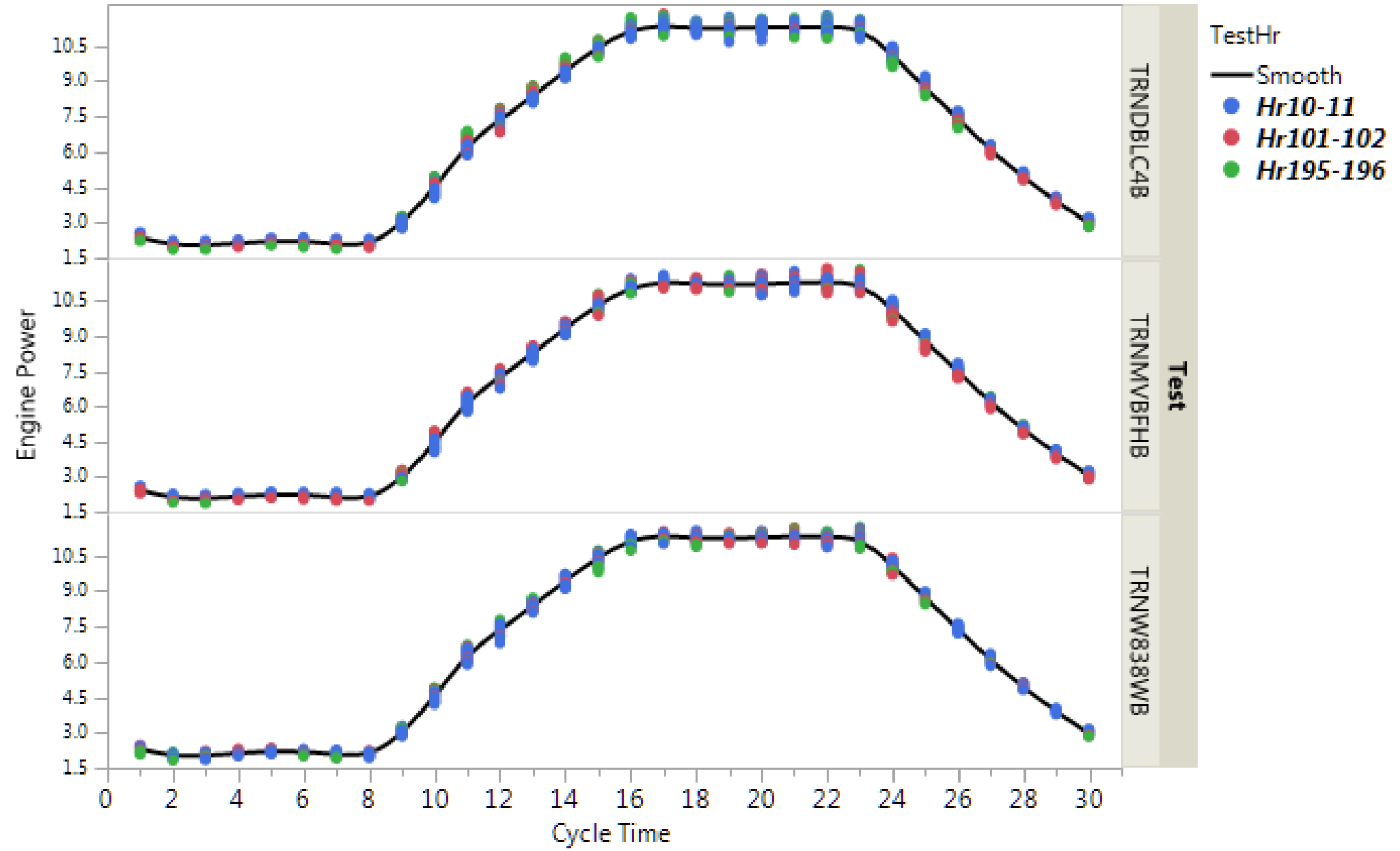
Graph Builder

Engine Oil Sump (Temp.) vs. Cycle Time



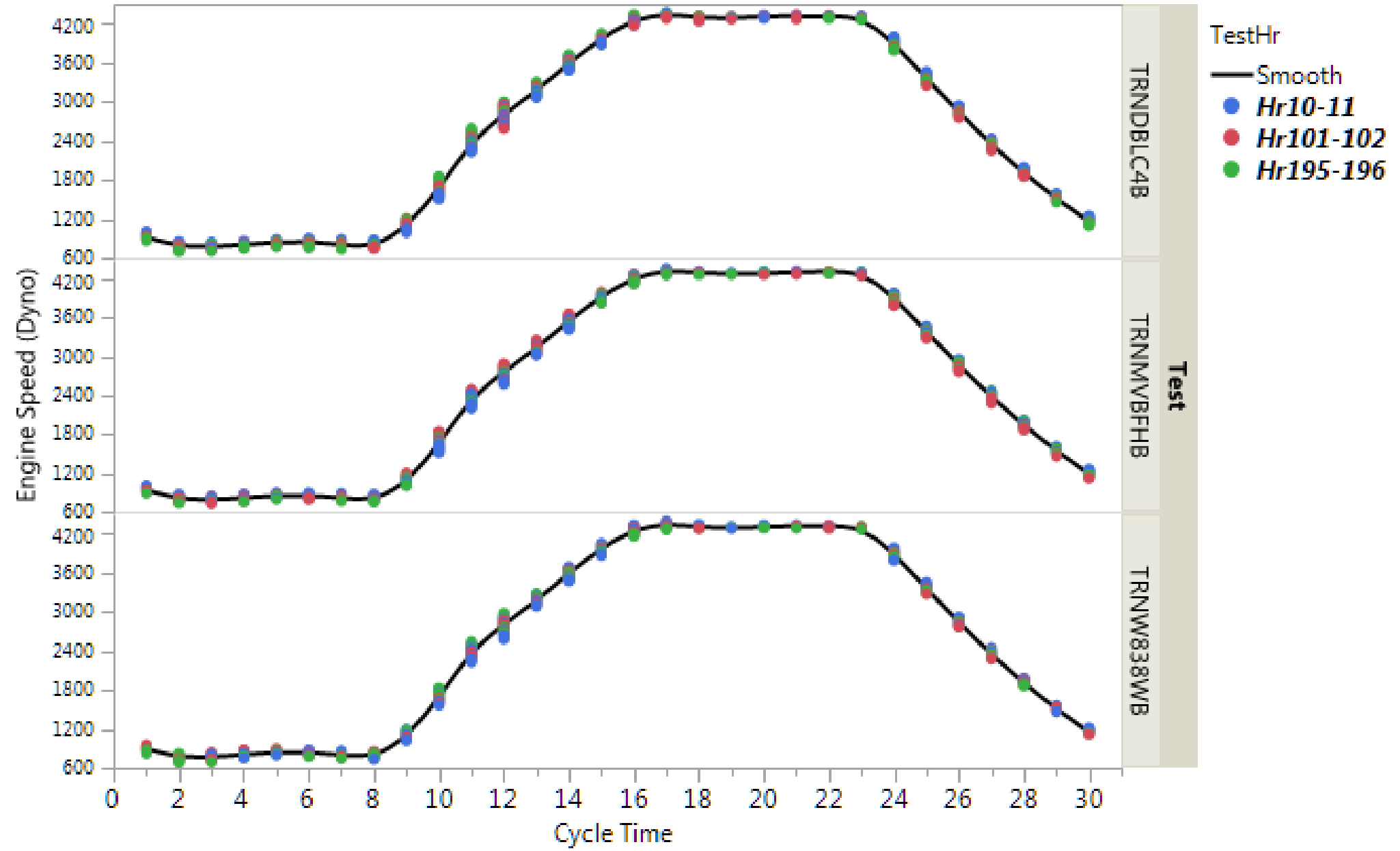
Where(LAB = Lubrizol)

Engine Power vs. Cycle Time



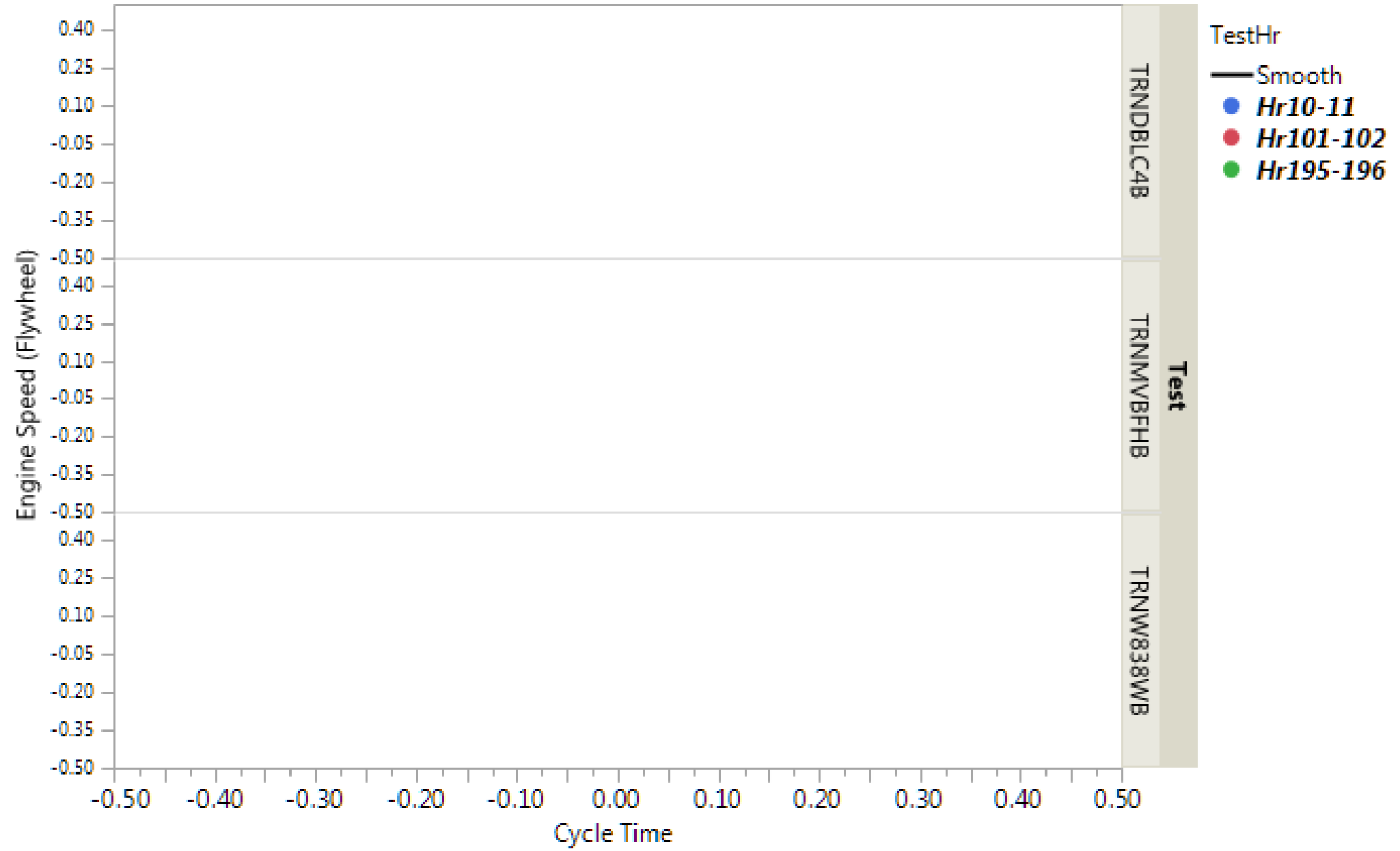
Where(LAB = Lubrizol)

Engine Speed (Dyno) vs. Cycle Time

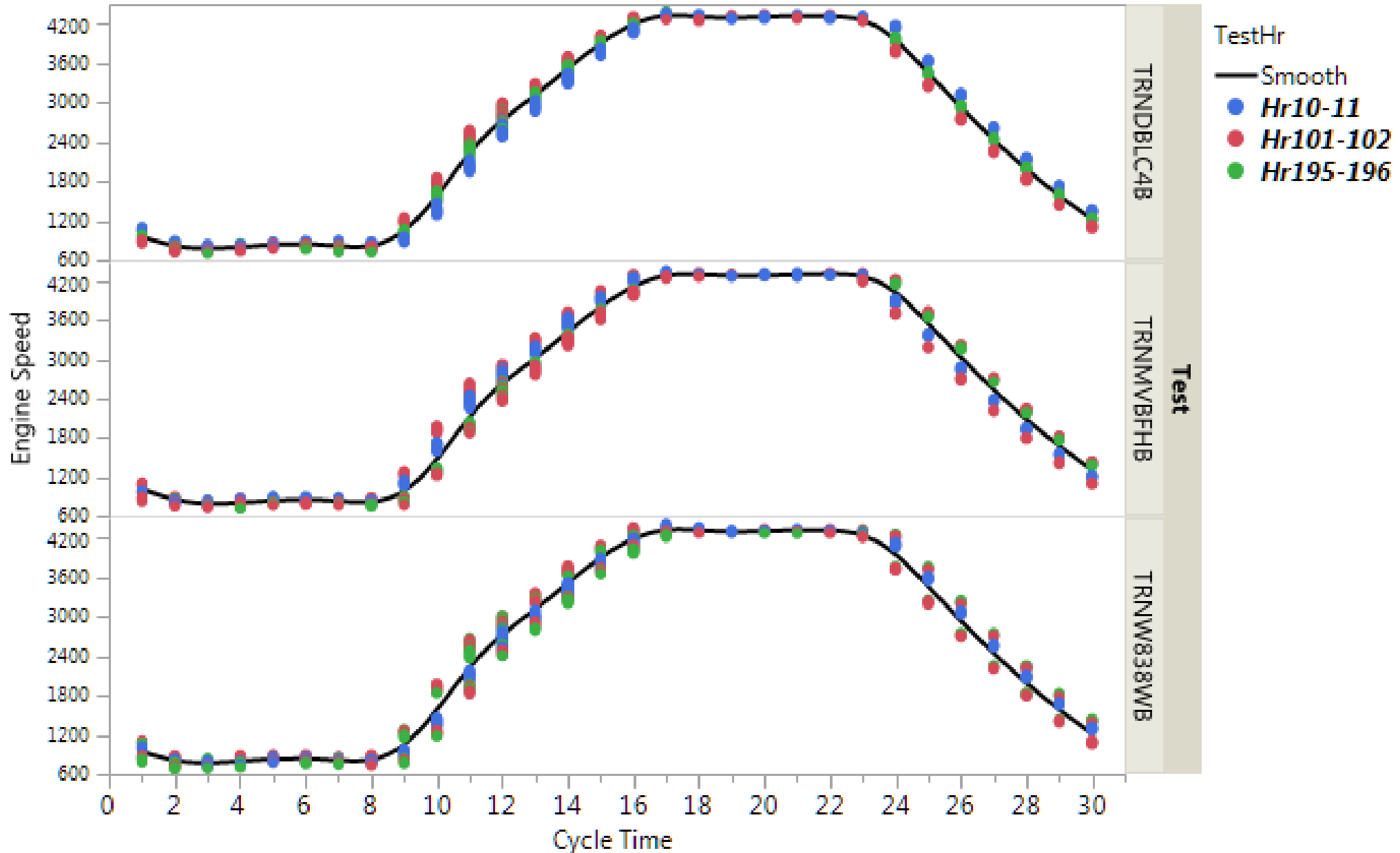


Where(LAB = Lubrizol)

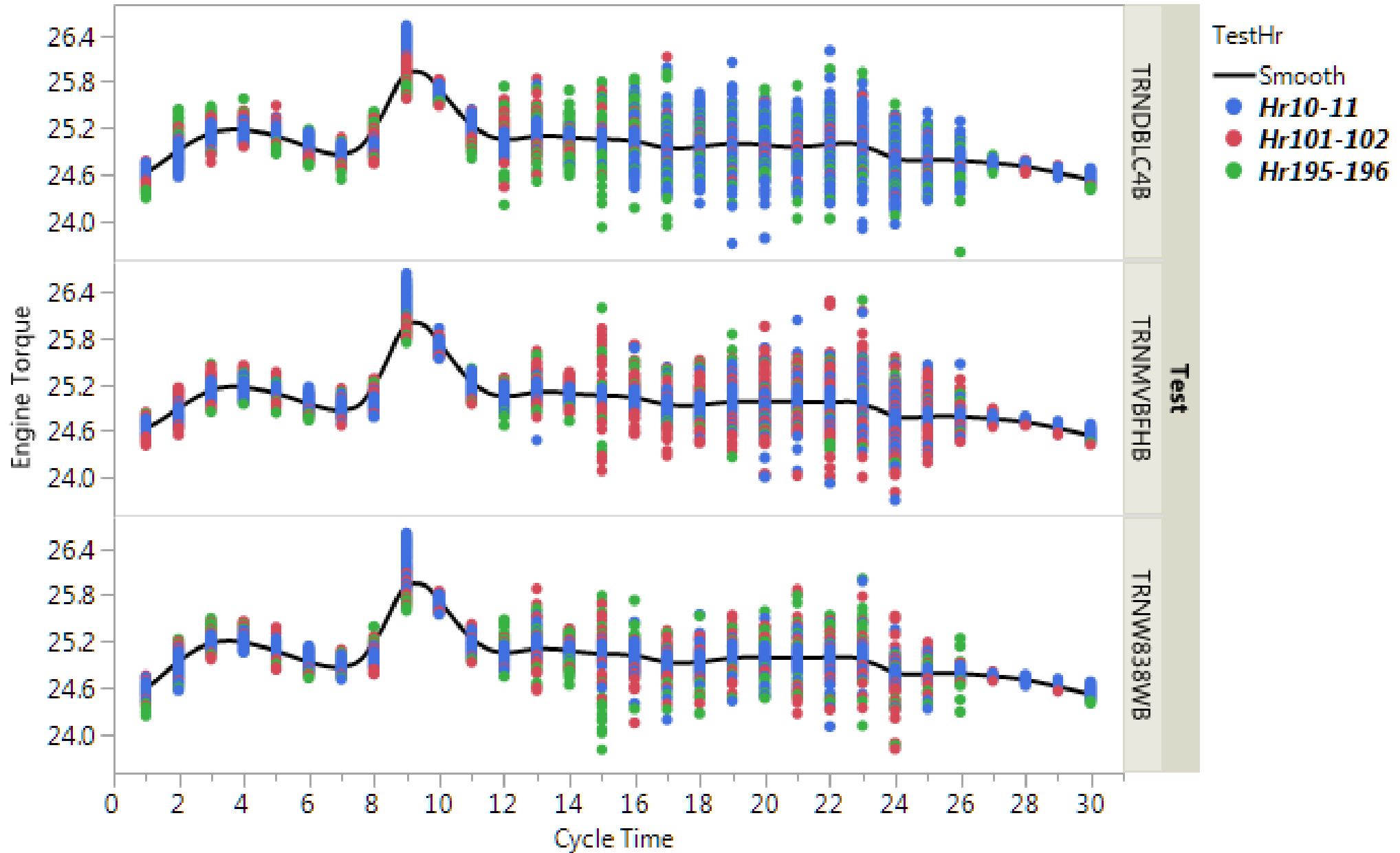
Engine Speed (Flywheel) vs. Cycle Time



Engine Speed vs. Cycle Time

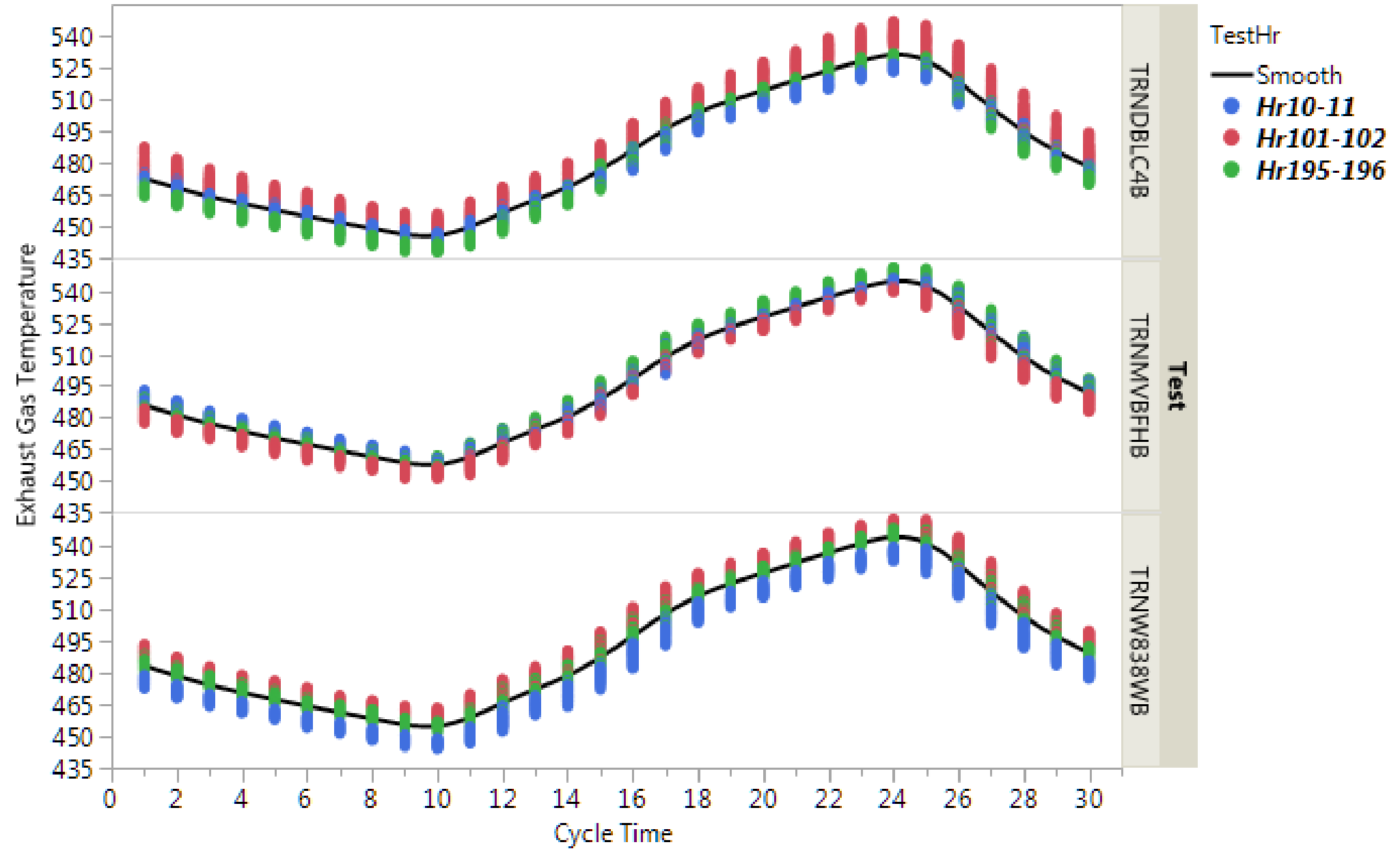


Engine Torque vs. Cycle Time



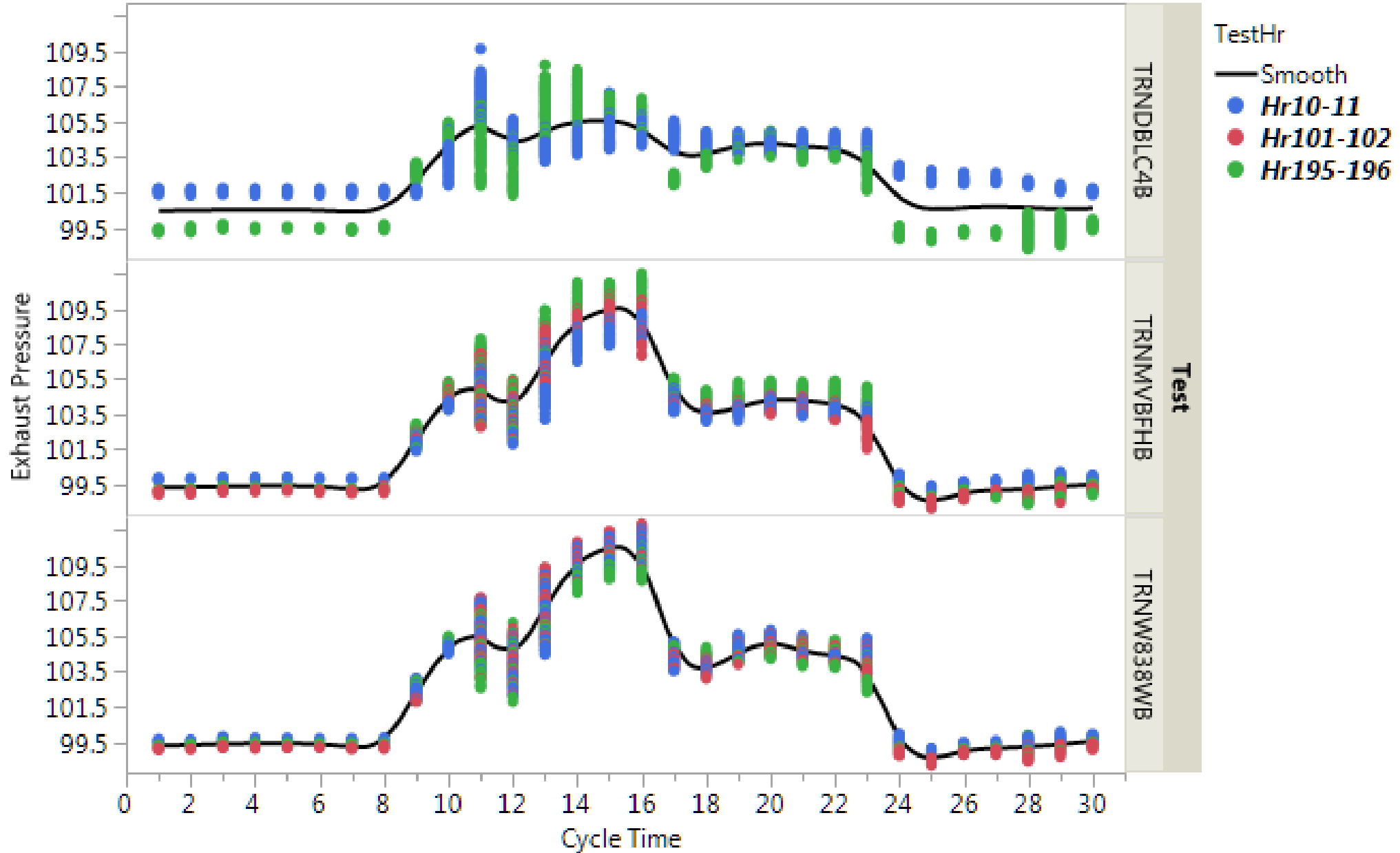
Where(LAB = Lubrizol)

Exhaust Gas Temperature vs. Cycle Time



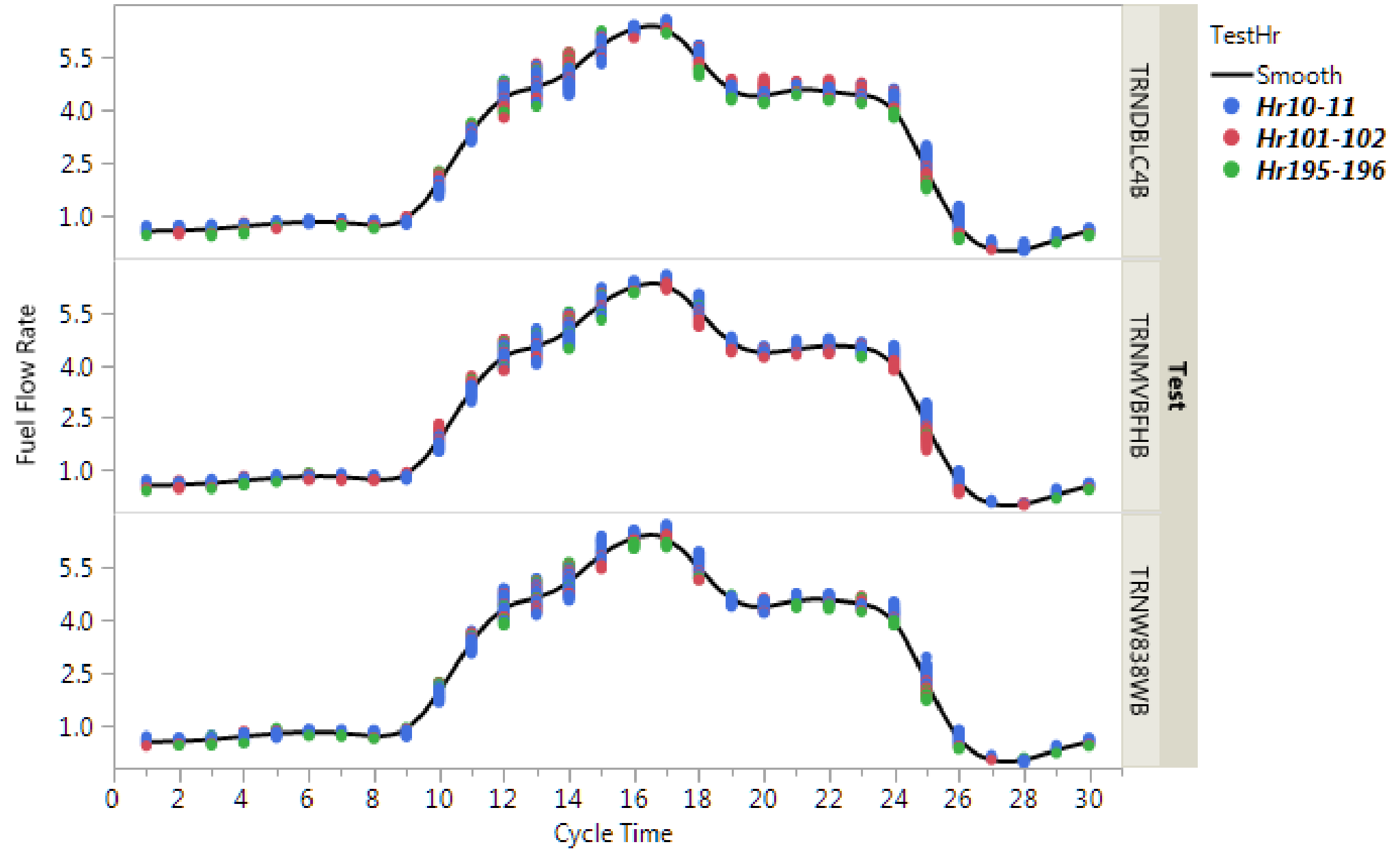
Where(LAB = Lubrizol)

Exhaust Pressure vs. Cycle Time



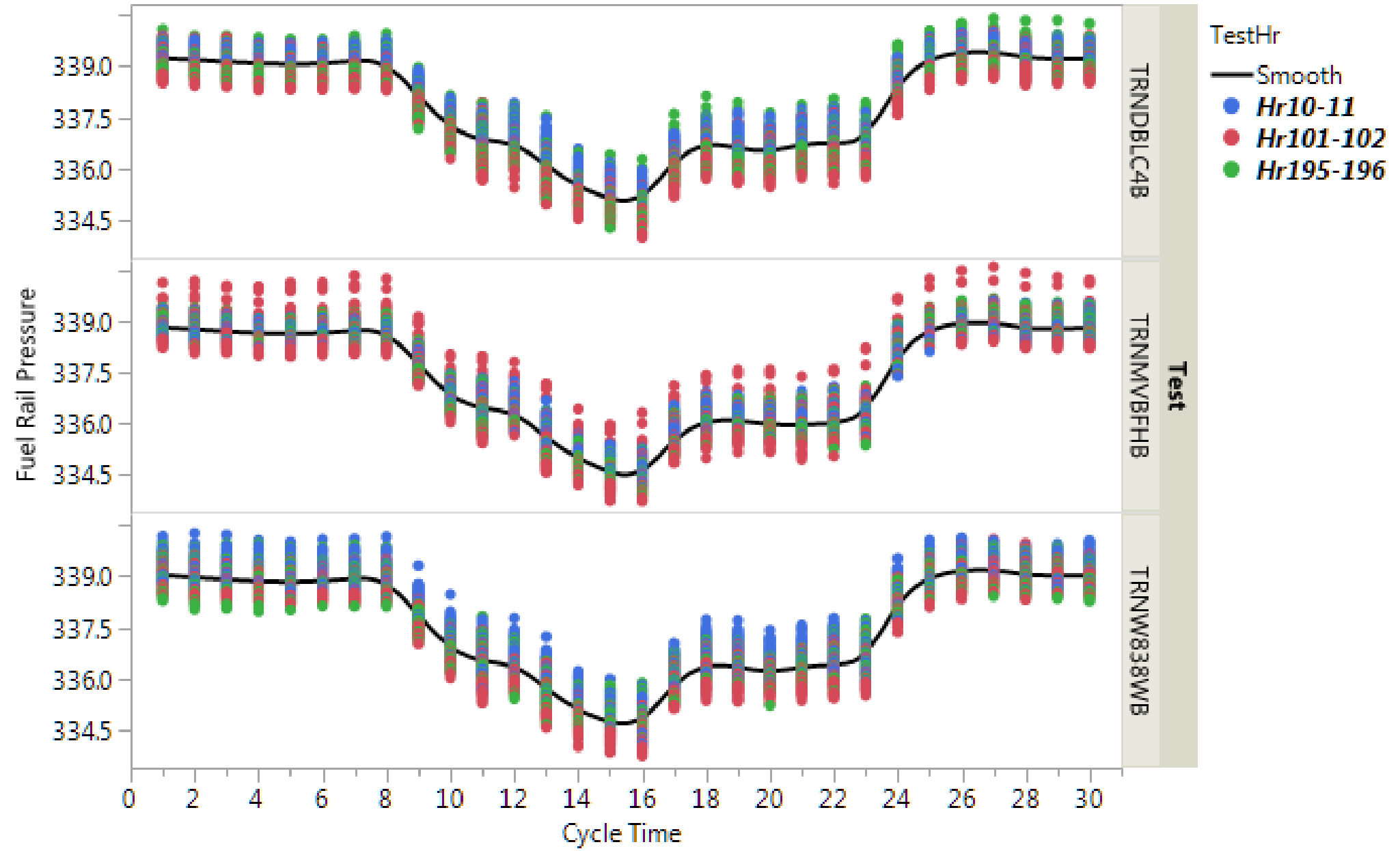
Where(LAB = Lubrizol)

Fuel Flow Rate vs. Cycle Time



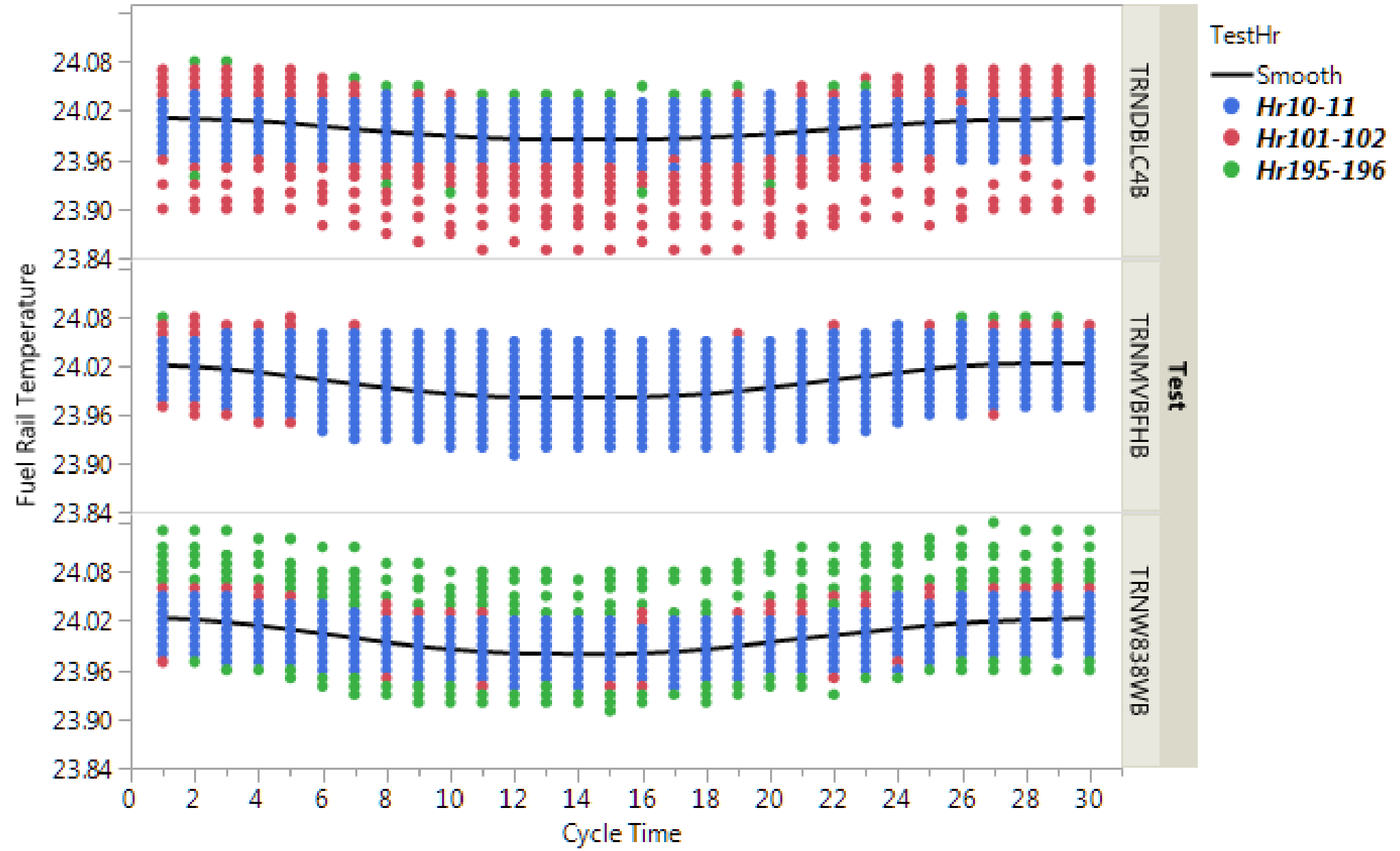
Where(LAB = Lubrizol)

Fuel Rail Pressure vs. Cycle Time



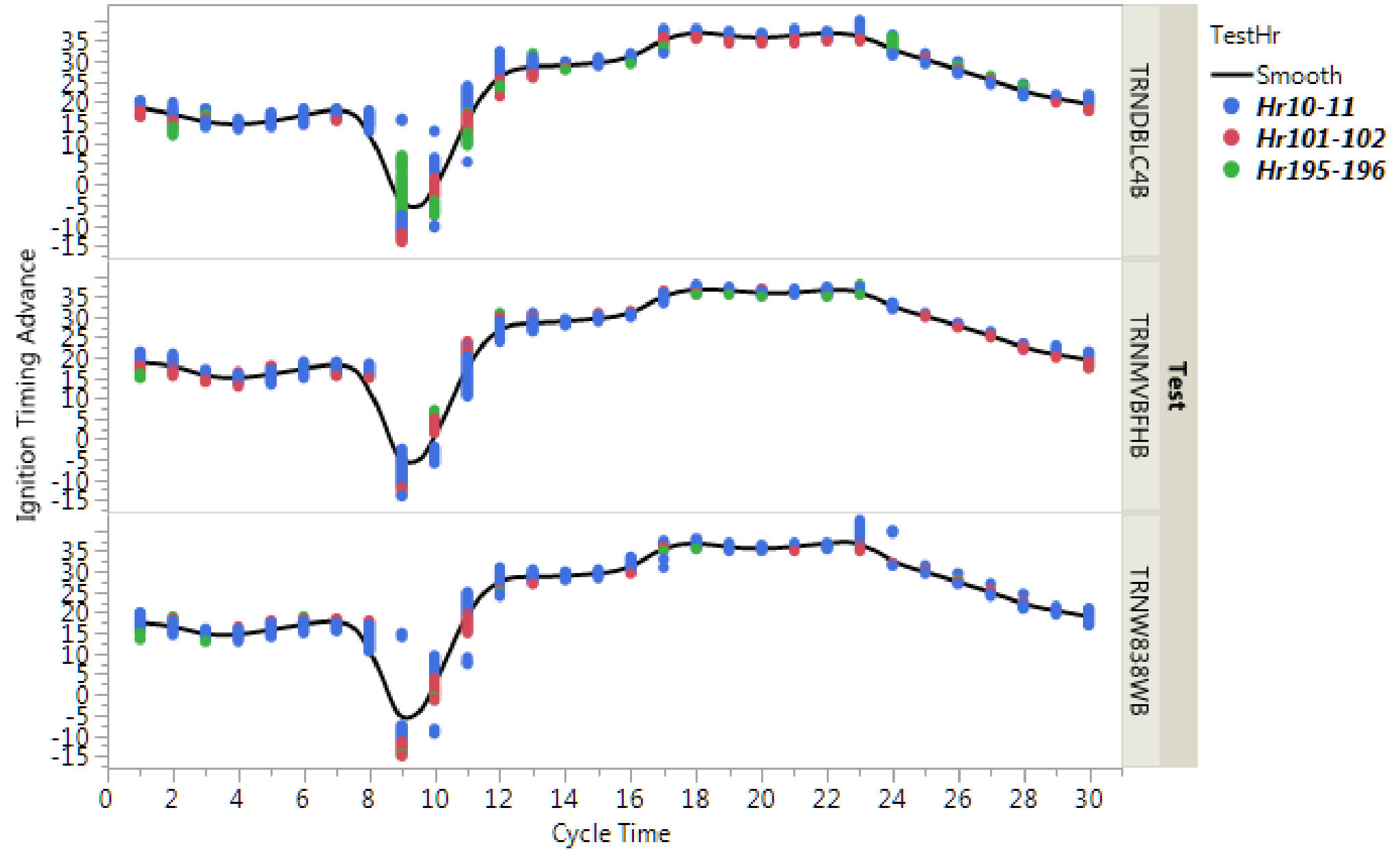
TestHr
— Smooth
● Hr10-11
● Hr101-102
● Hr195-196

Fuel Rail Temperature vs. Cycle Time



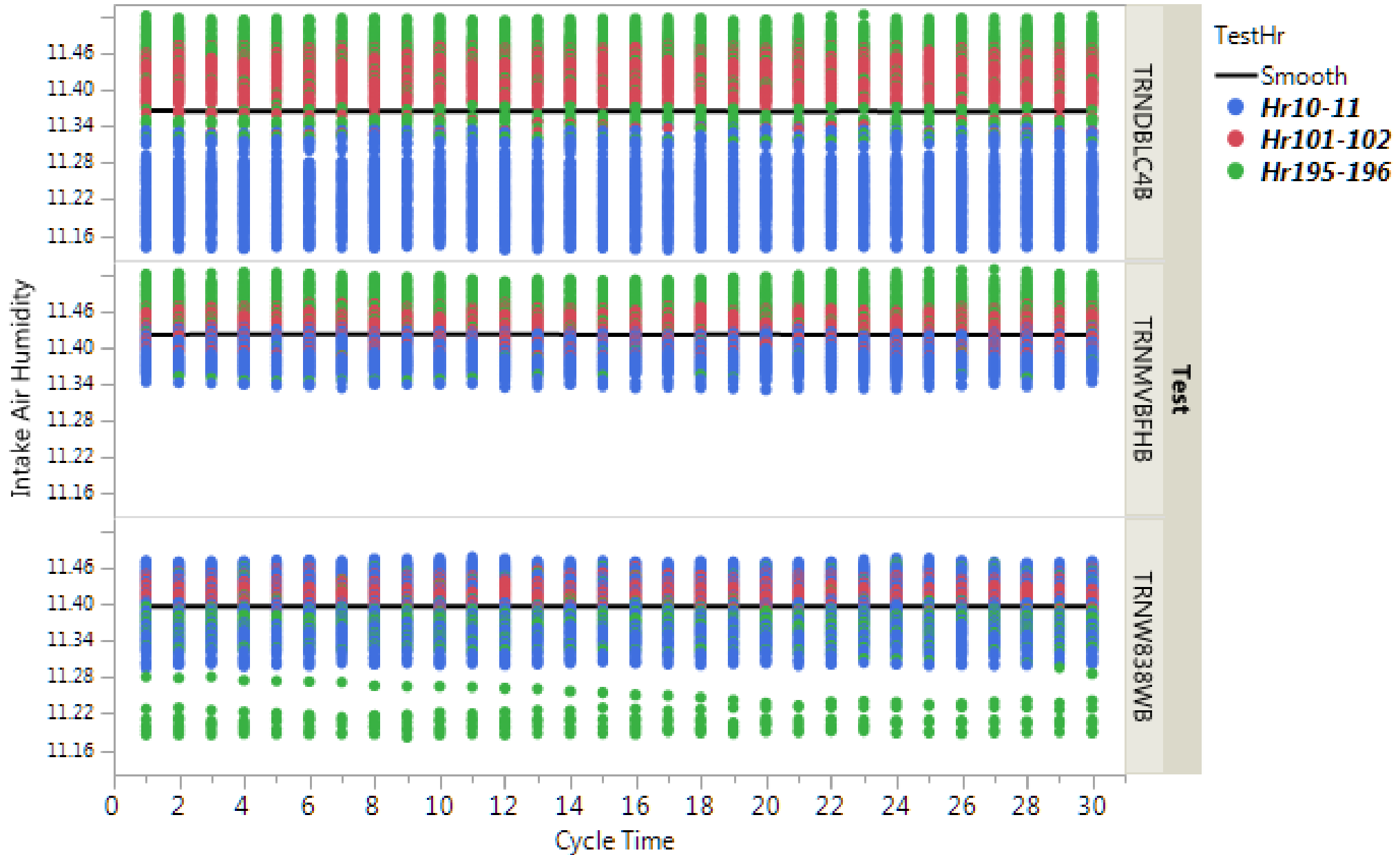
Where(LAB = Lubrizol)

Ignition Timing Advance vs. Cycle Time



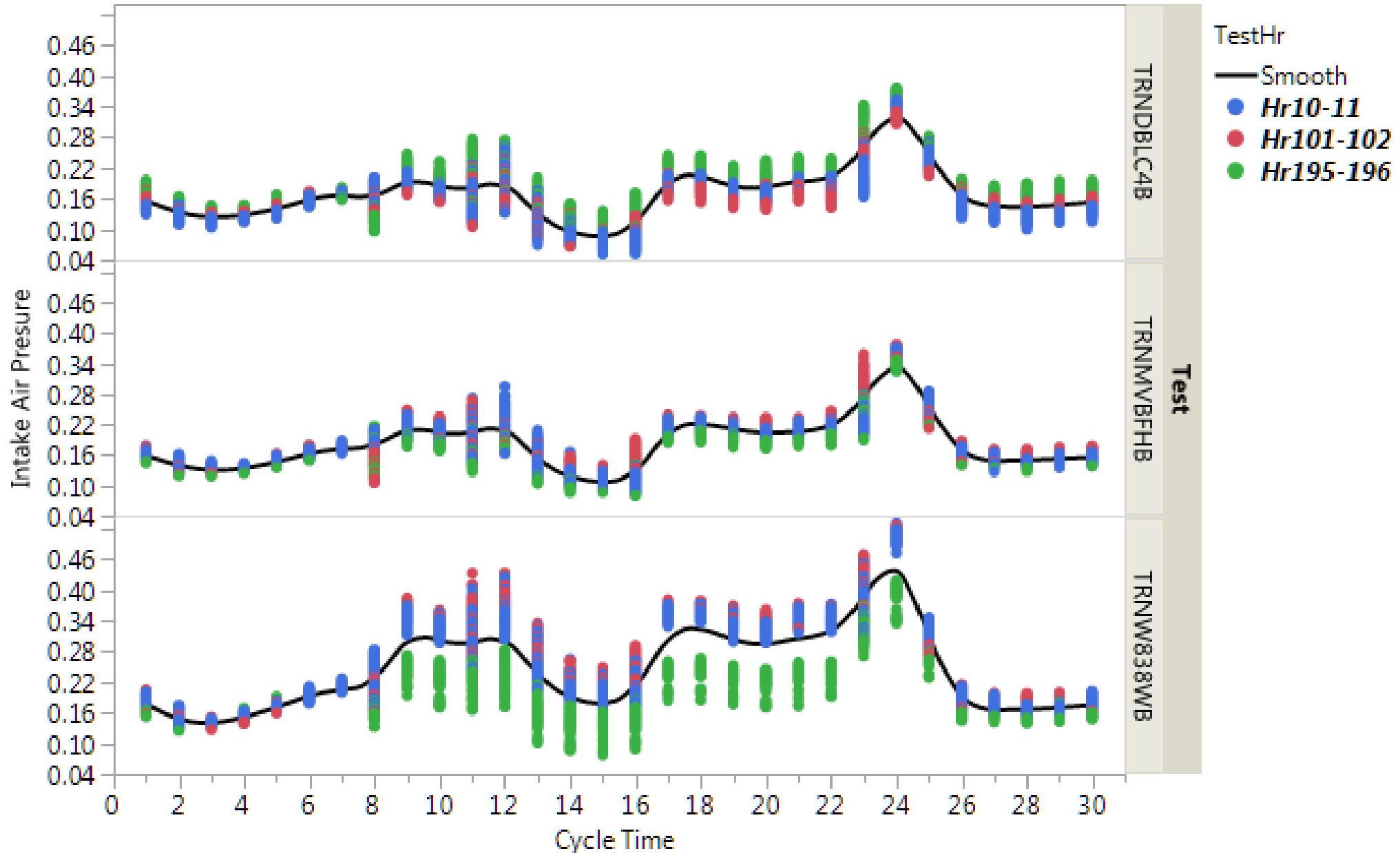
Where(LAB = Lubrizol)

Intake Air Humidity vs. Cycle Time

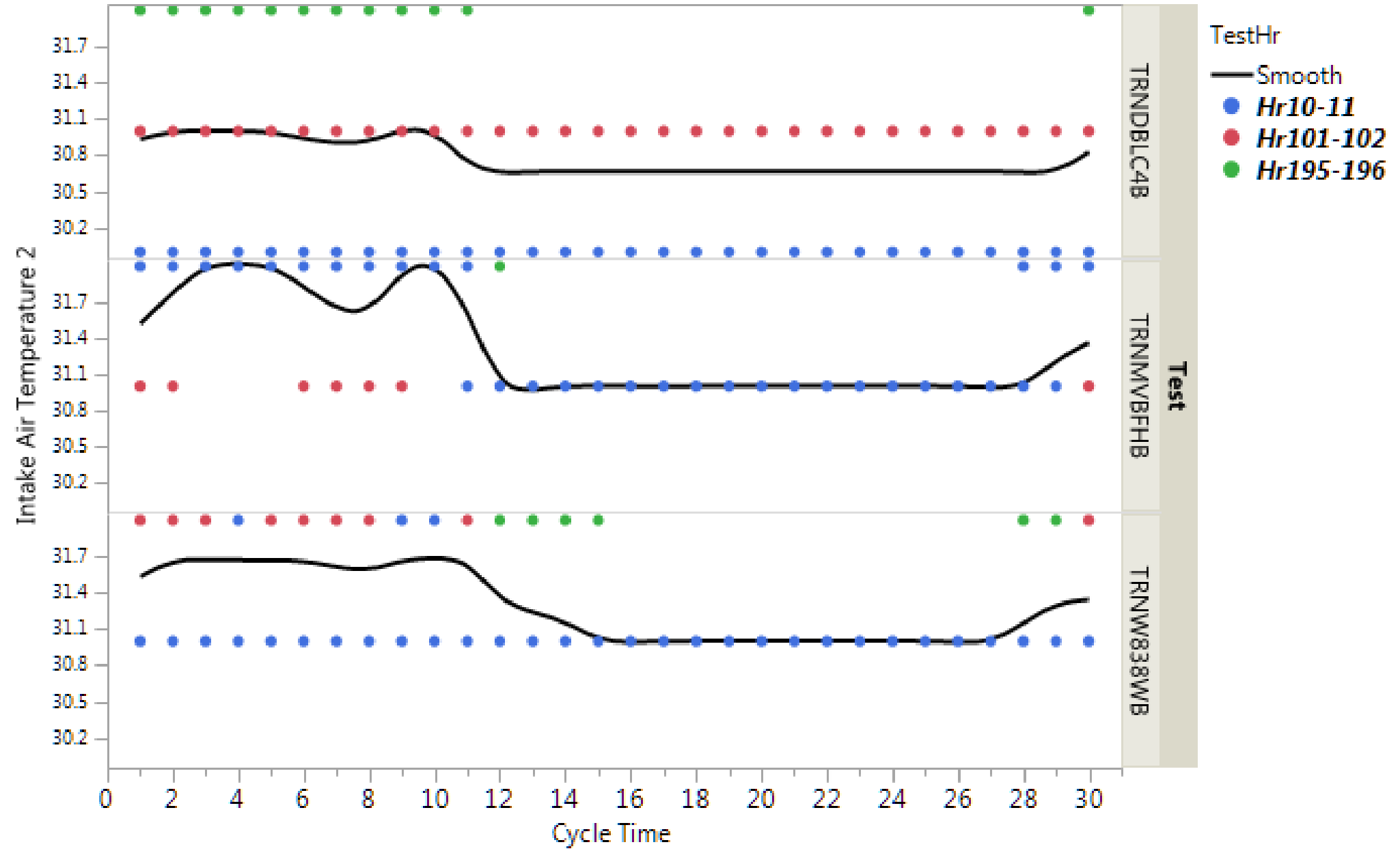


Where(LAB = Lubrizol)

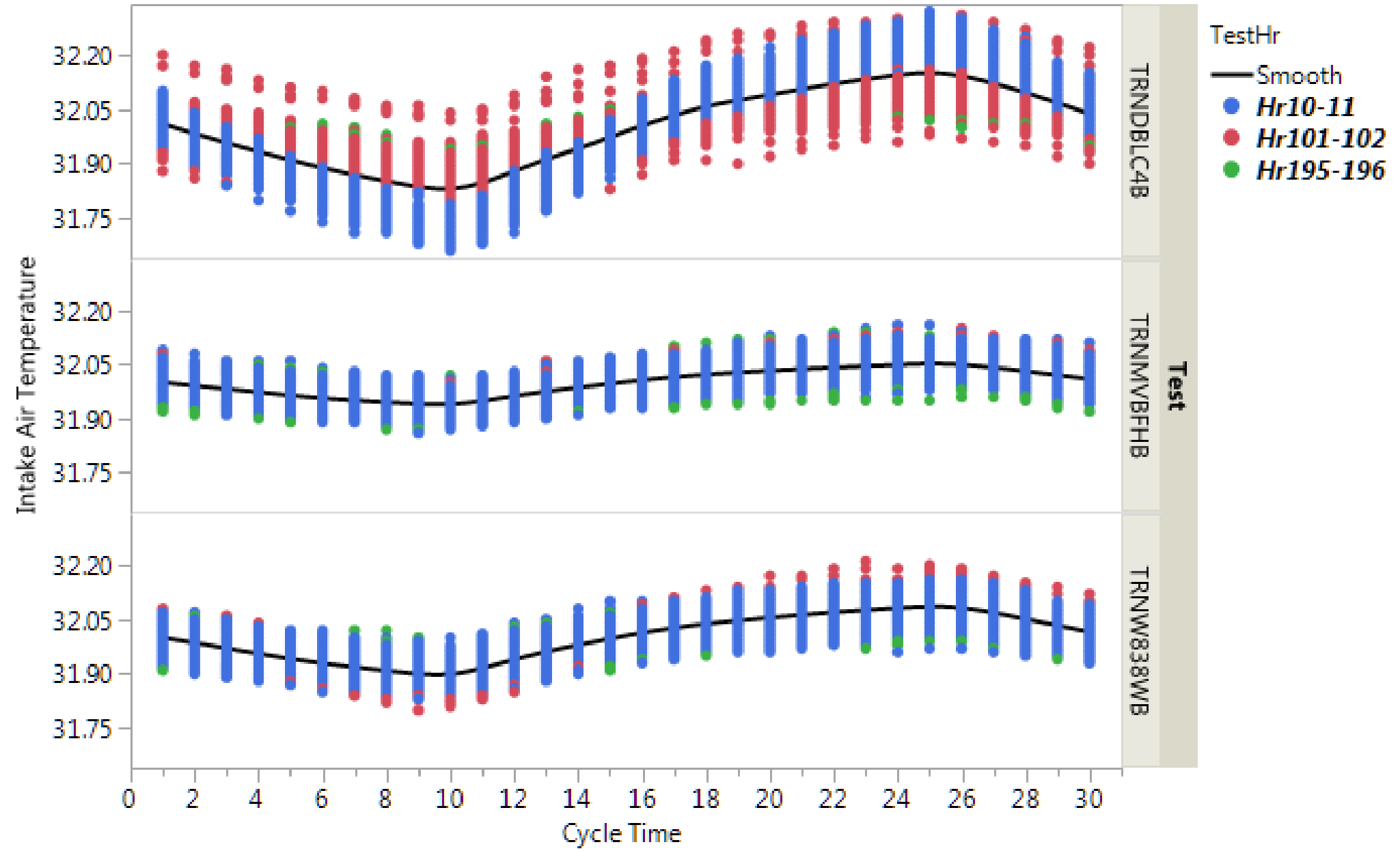
Intake Air Pressure vs. Cycle Time



Intake Air Temperature 2 vs. Cycle Time

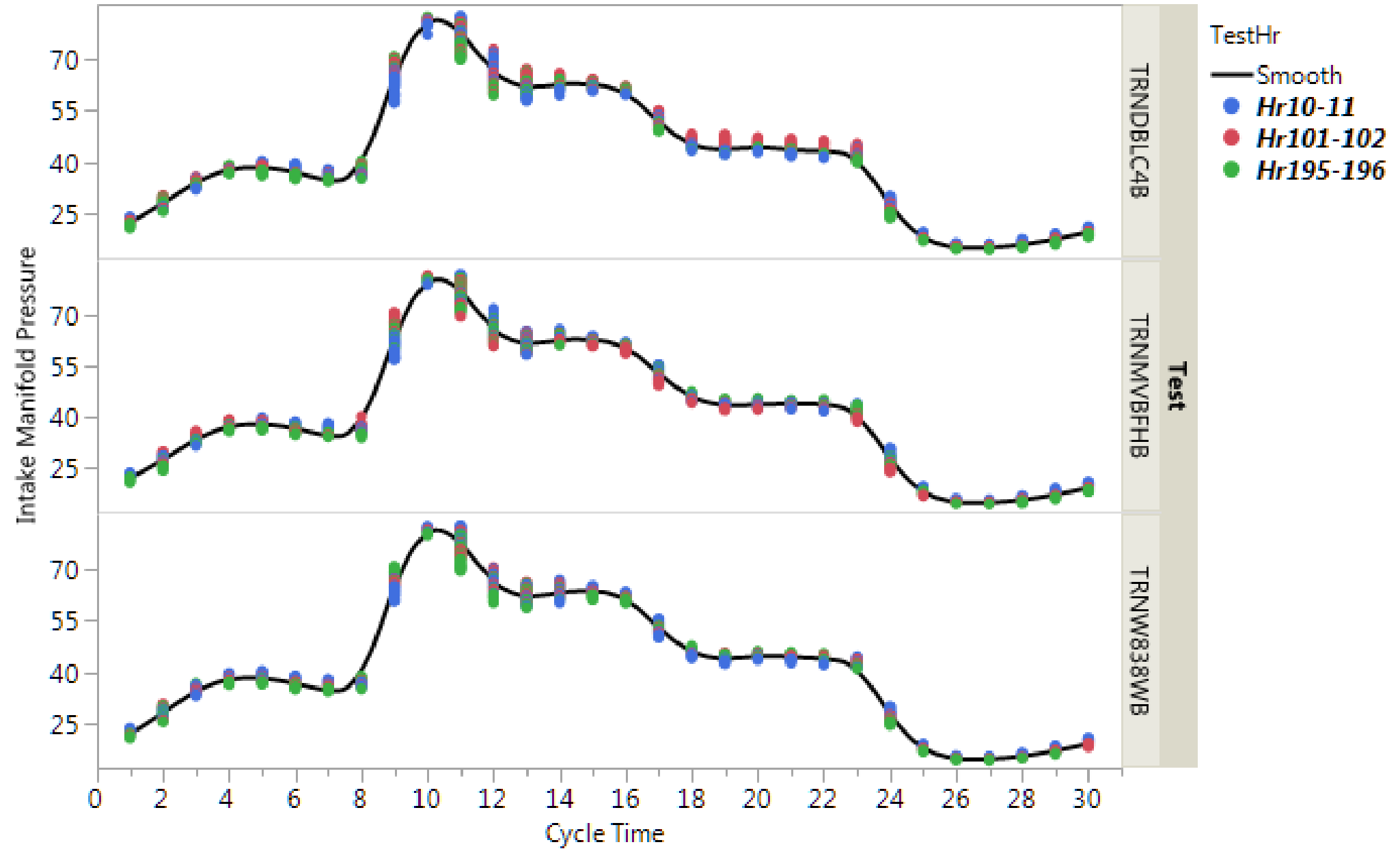


Intake Air Temperature vs. Cycle Time



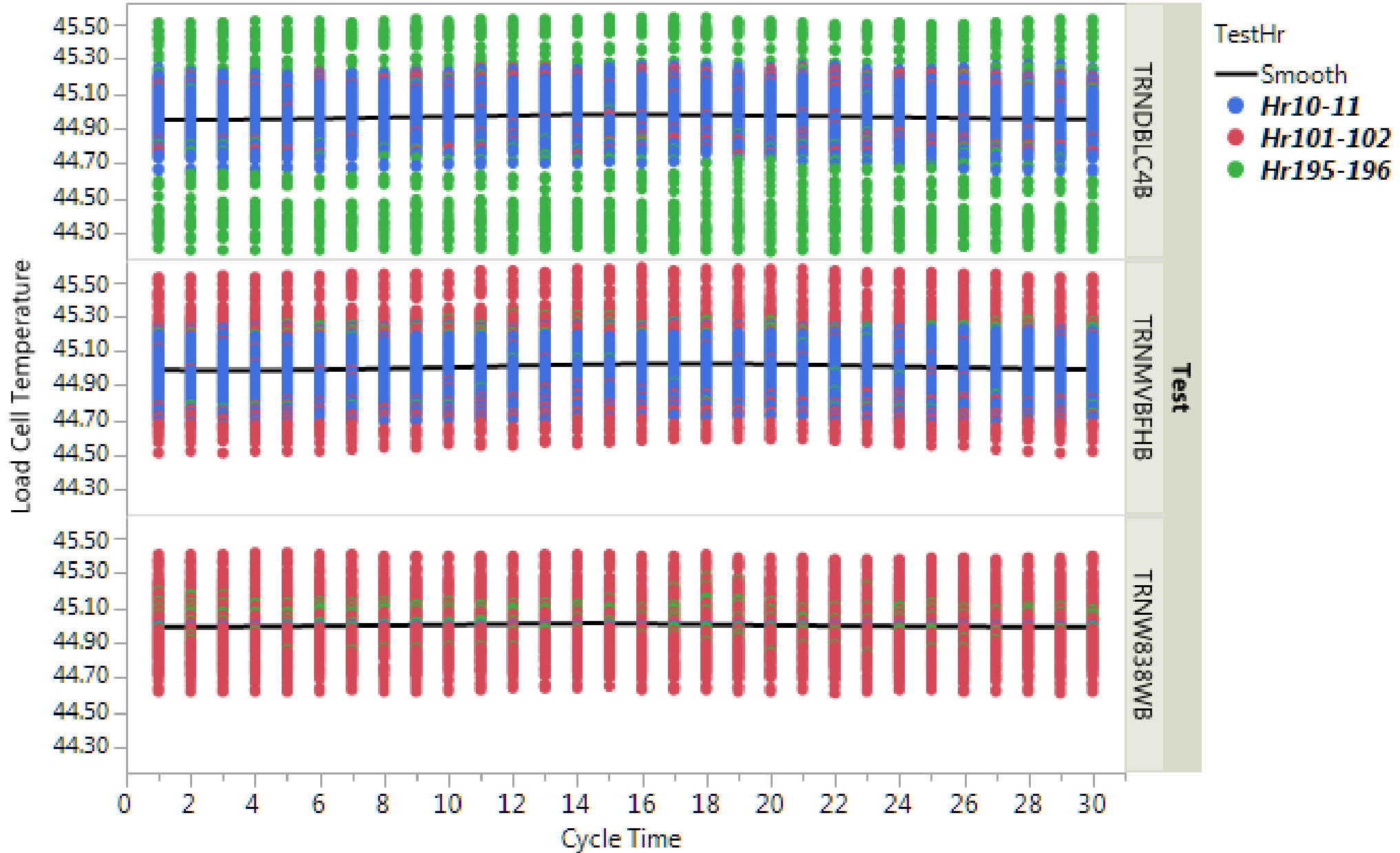
Where(LAB = Lubrizol)

Intake Manifold Pressure vs. Cycle Time



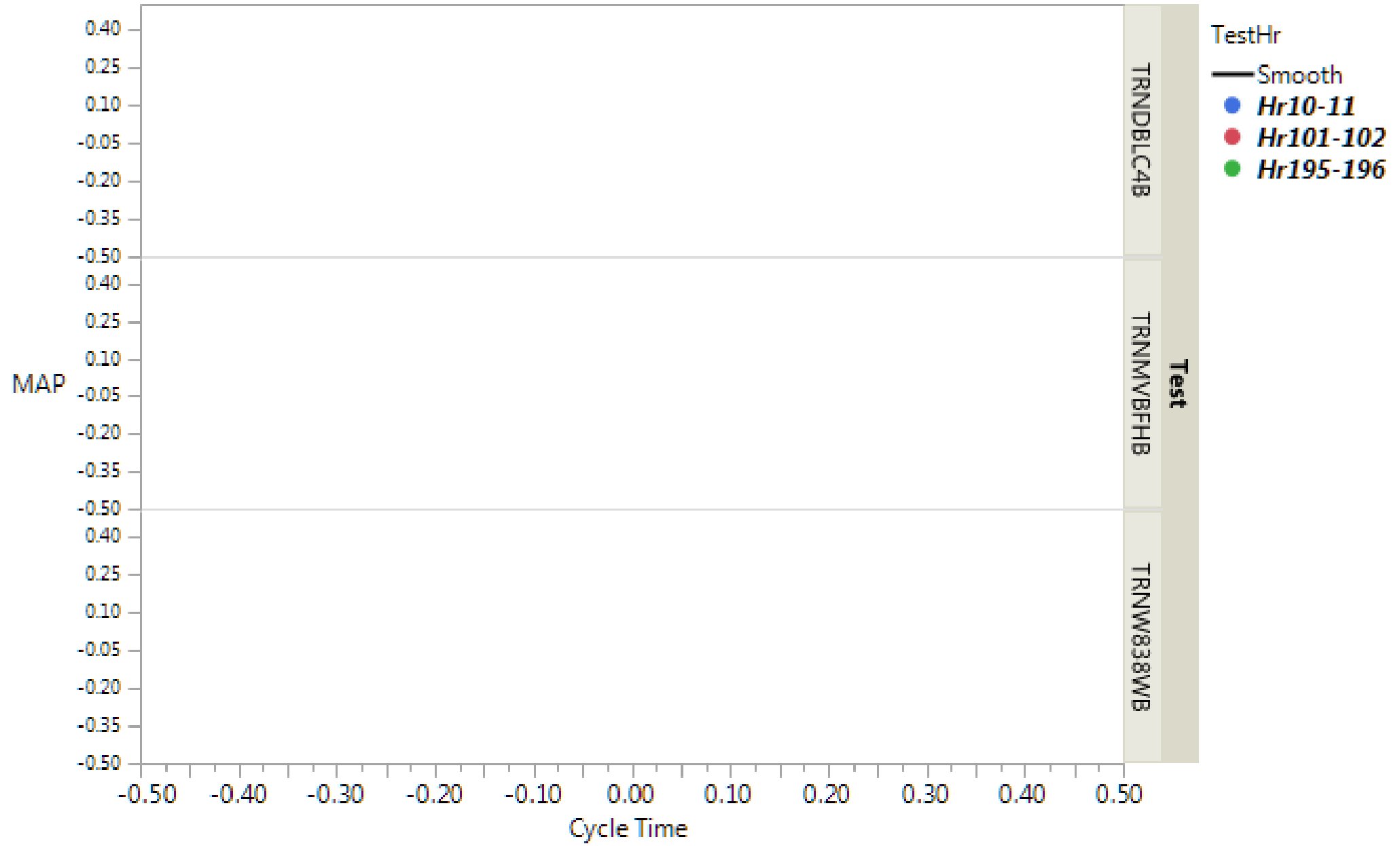
Where(LAB = Lubrizol)

Load Cell Temperature vs. Cycle Time



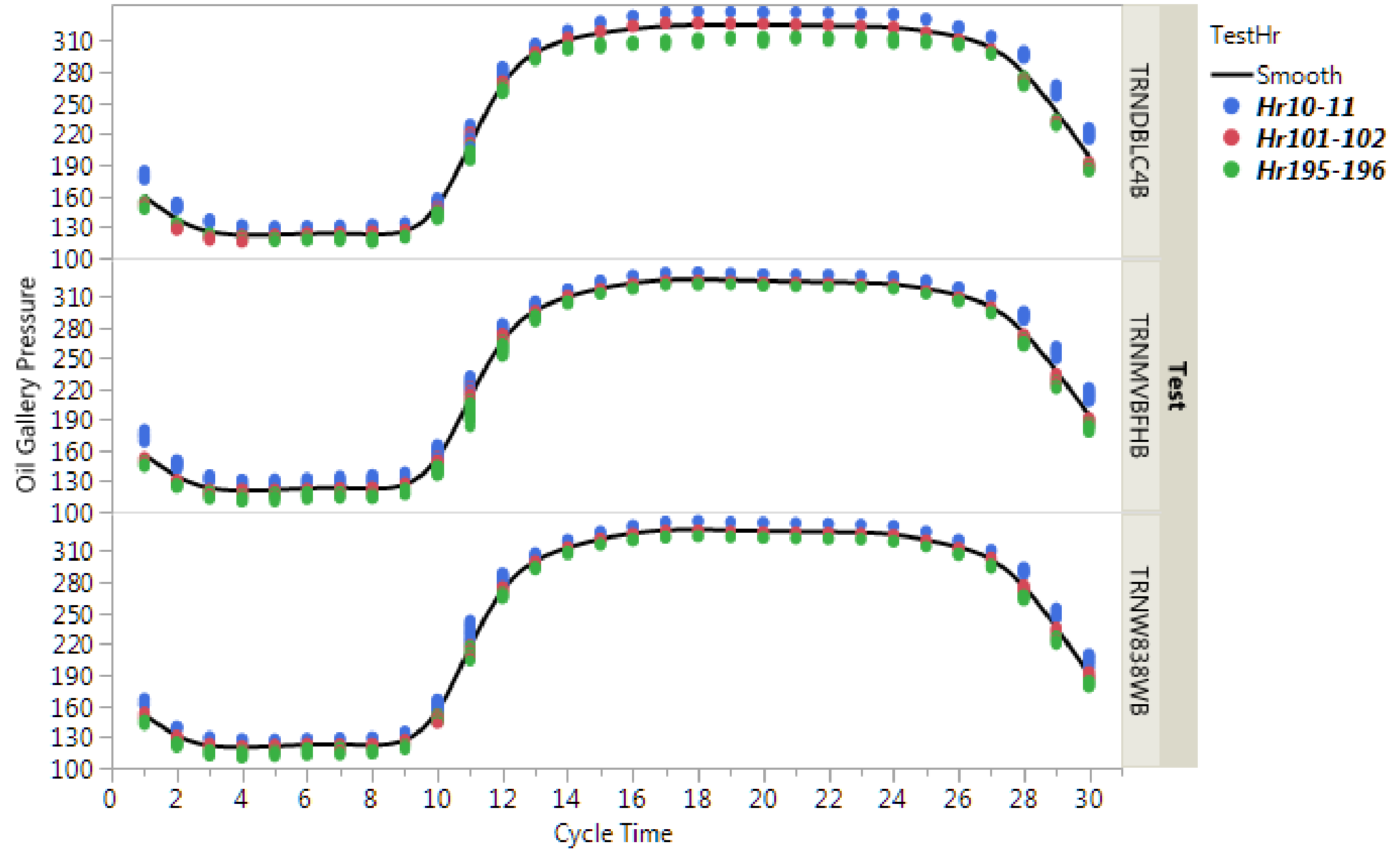
Where(LAB = Lubrizol)

MAP vs. Cycle Time

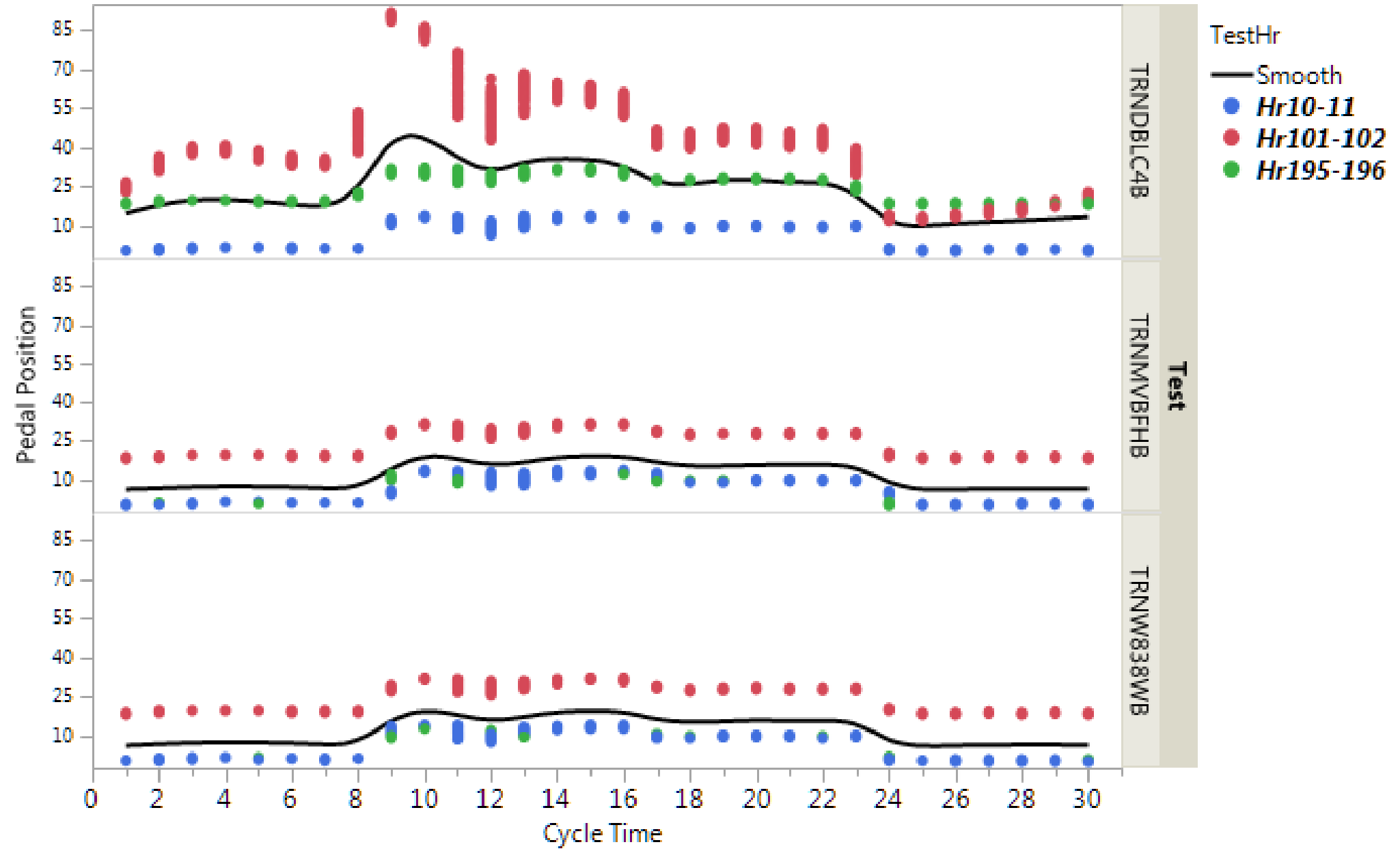


Where(LAB = Lubrizol)

Oil Gallery Pressure vs. Cycle Time

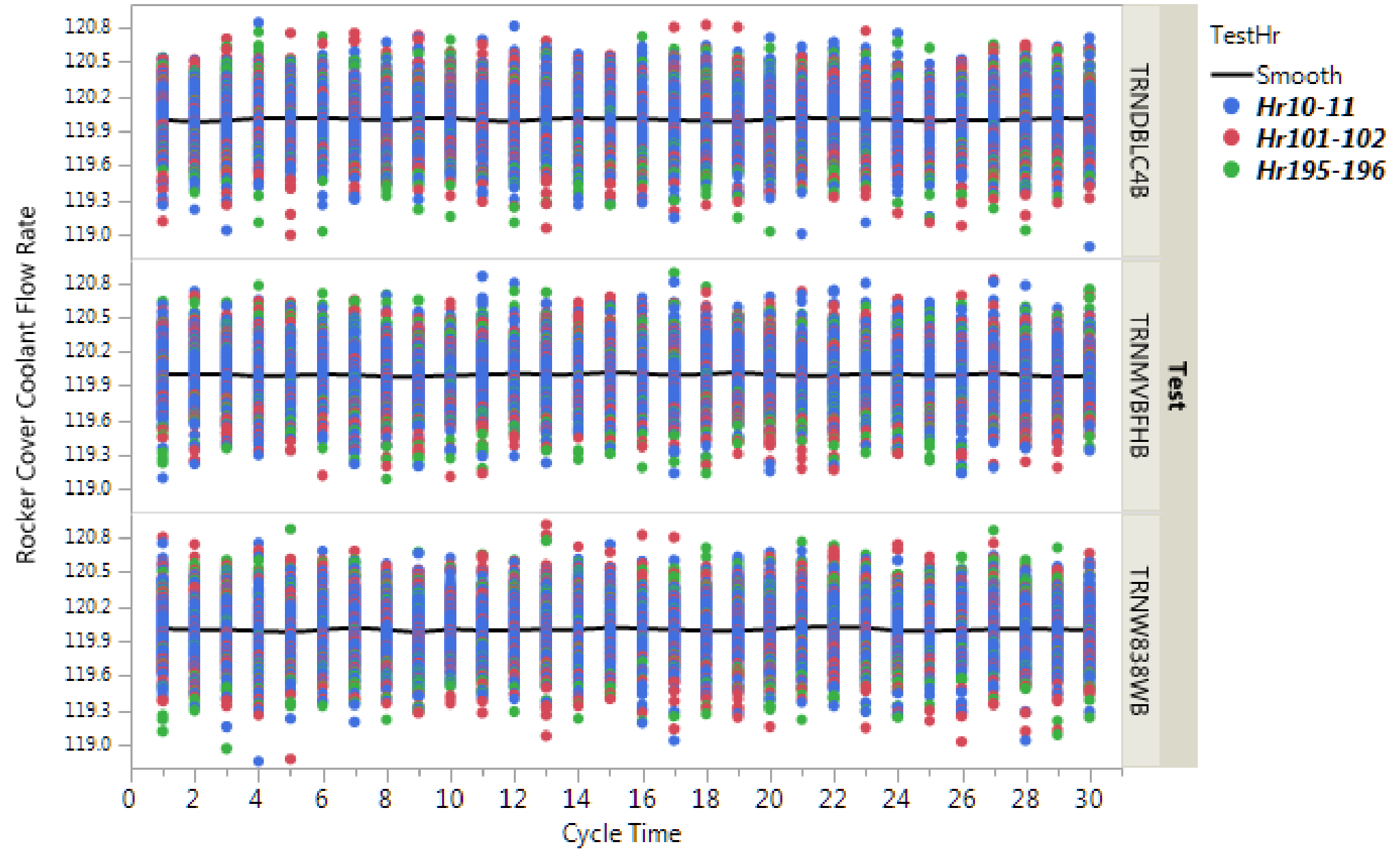


Pedal Position vs. Cycle Time



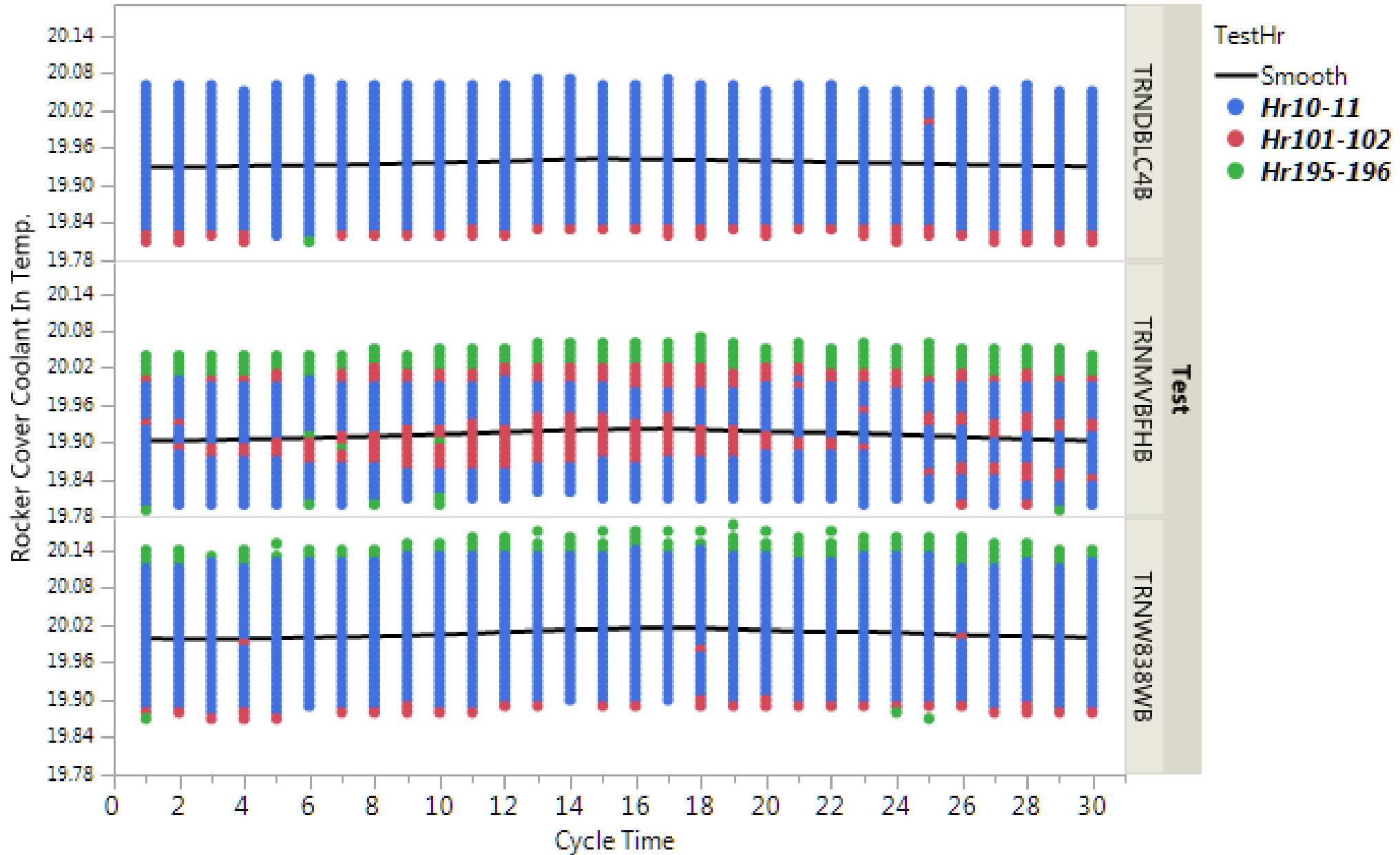
Where(LAB = Lubrizol)

Rocker Cover Coolant Flow Rate vs. Cycle Time



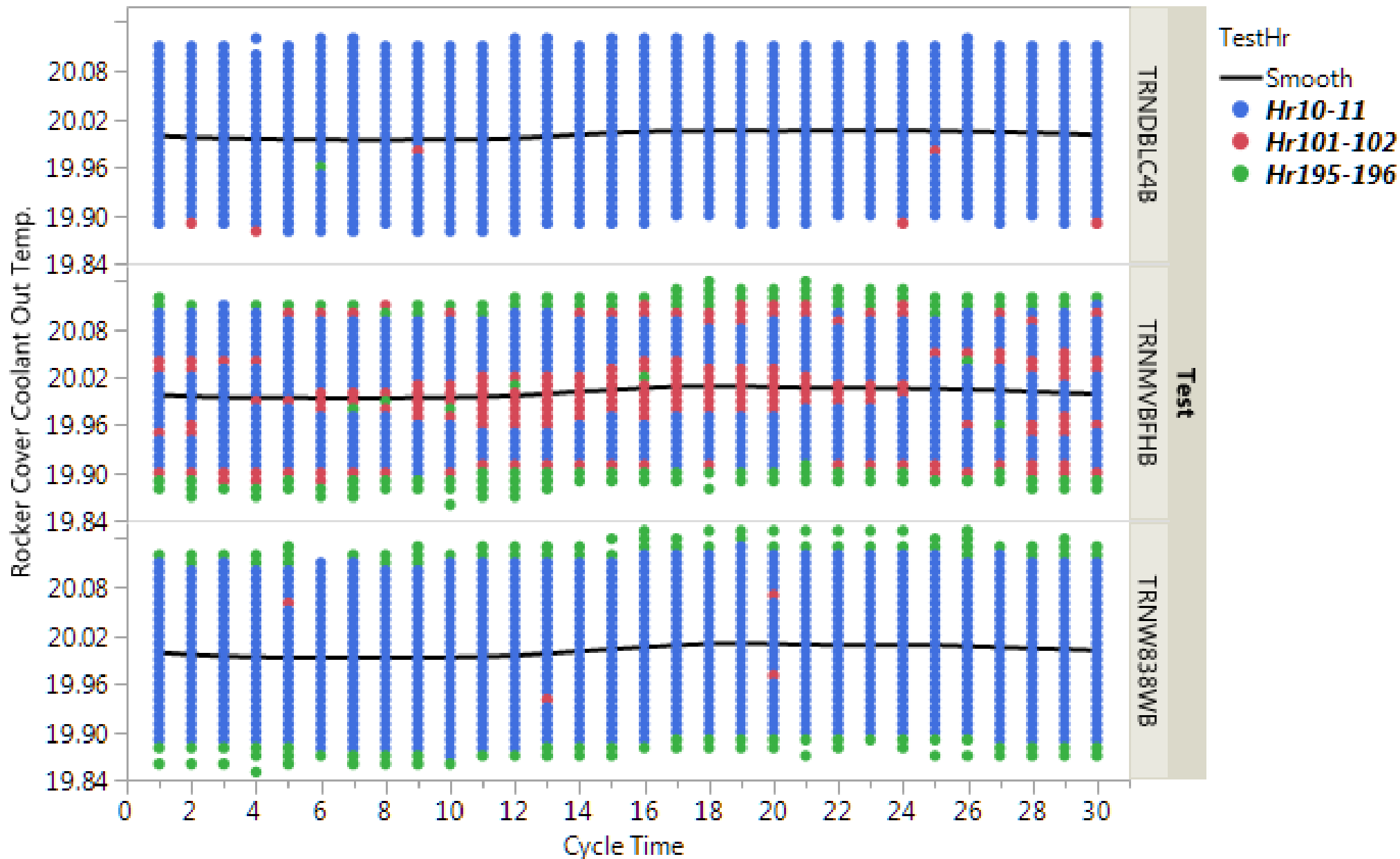
Where(LAB = Lubrizol)

Rocker Cover Coolant In Temp. vs. Cycle Time



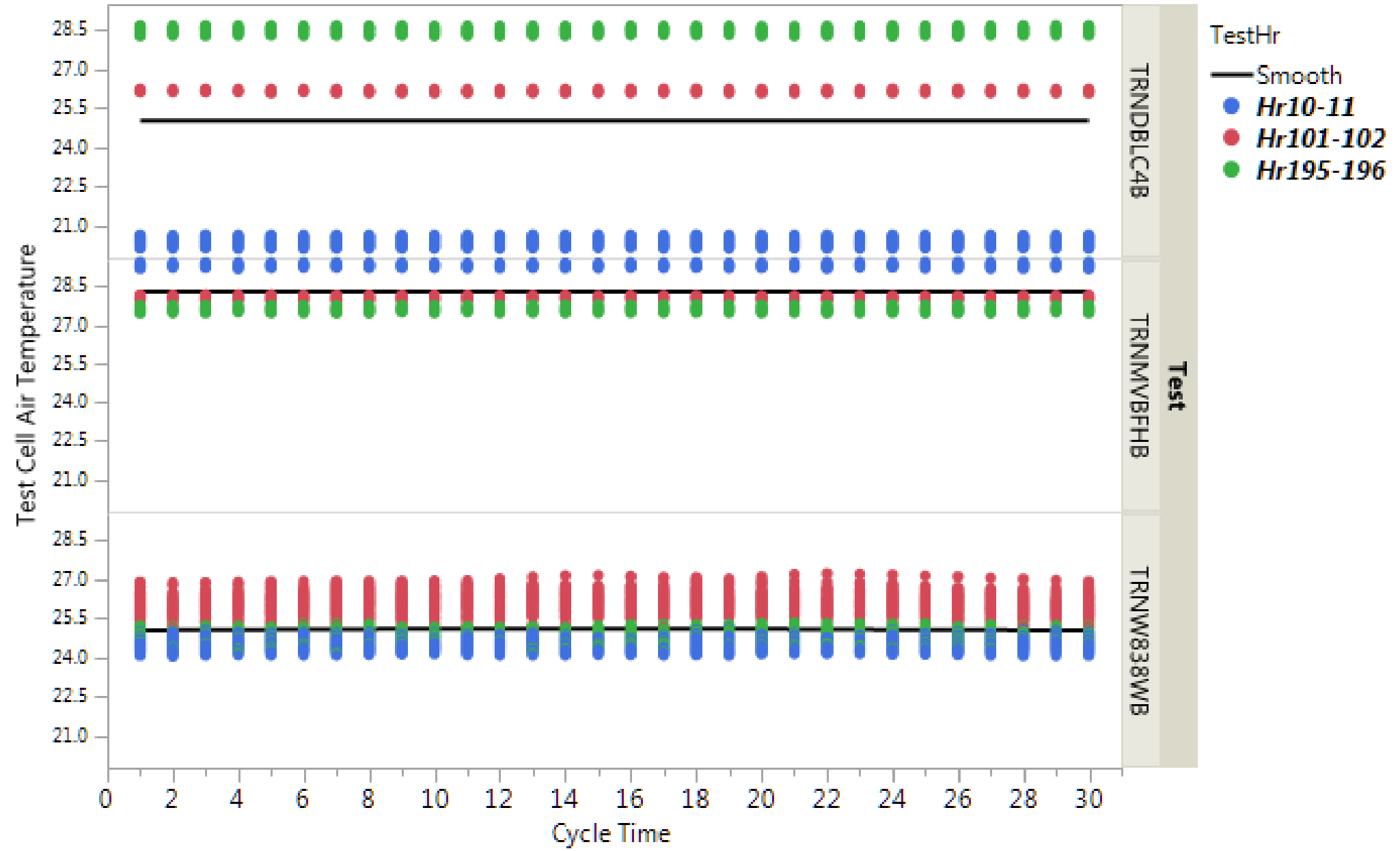
Where(LAB = Lubrizol)

Rocker Cover Coolant Out Temp. vs. Cycle Time



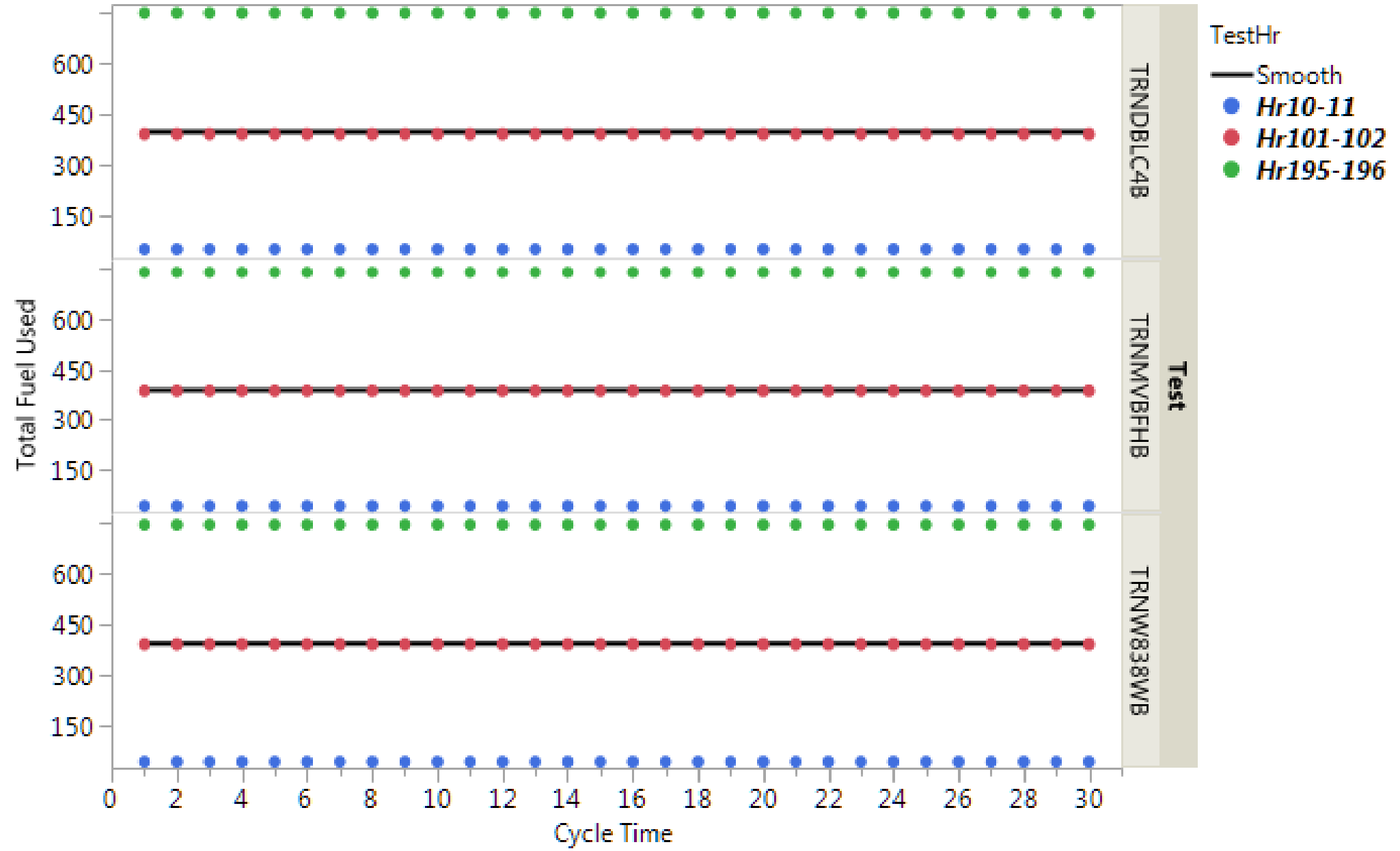
Where(LAB = Lubrizol)

Test Cell Air Temperature vs. Cycle Time



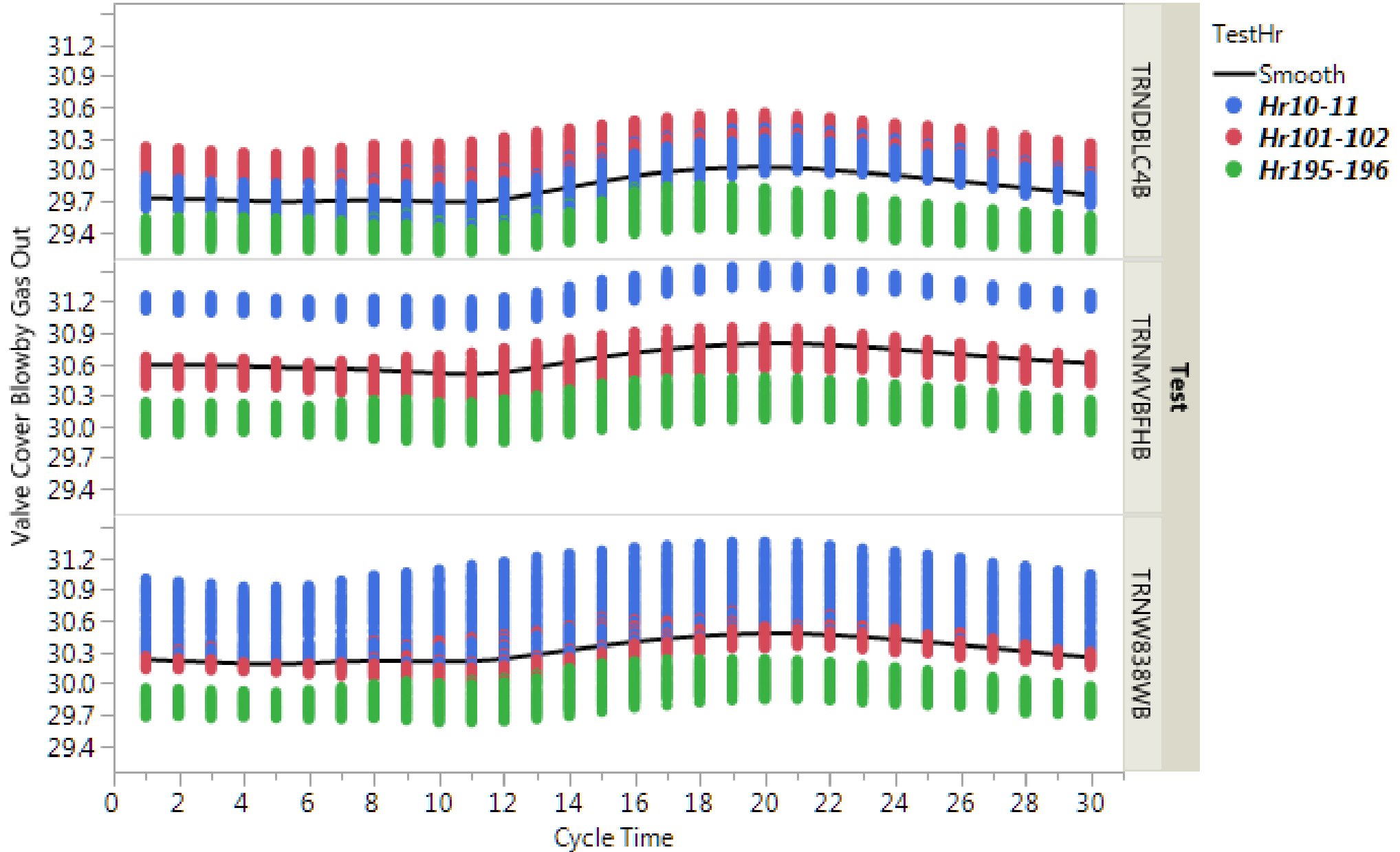
Where(LAB = Lubrizol)

Total Fuel Used vs. Cycle Time



Where(LAB = Lubrizol)

Valve Cover Blowby Gas Out vs. Cycle Time



Where(LAB = Lubrizol)