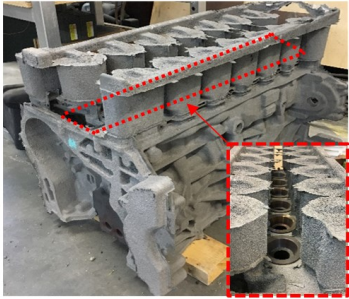


As-Cast with Fe Chills (TSR + Chills)



As-Cast (TSR)



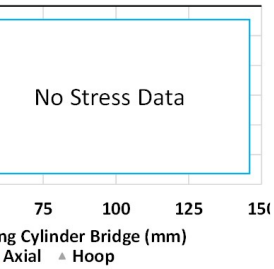
T4/T7 (T4 and T7)



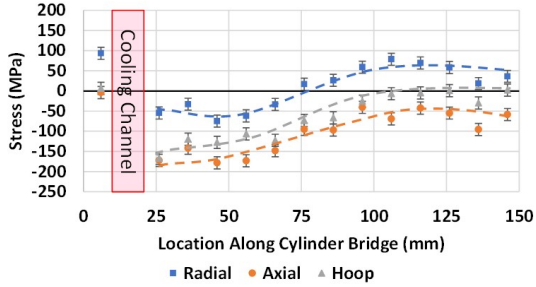
T7 Lined and Machined (T7LM)



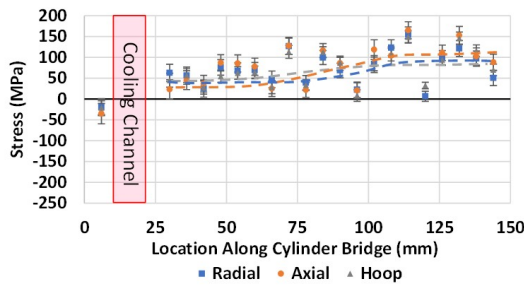
Chills (Middle Bridge)



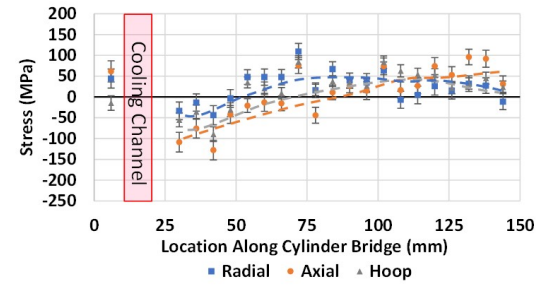
Stress - TSR (Edge Bridge)



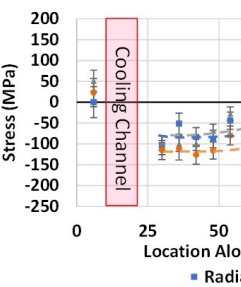
Stress - T4 (Edge Bridge)



Stress - T7 (Edge Bridge)



Stress - T7 Lined & M



ate + smooth bore
elastically-locked
pression

Removal of cylinder bore chills
→ partial stress relaxation

Solutionizing + quenching
→ tensile residual stress

Ageing → redistribution of
residual stress

Machining +
→ little effect