Chief Engineer Screening Questions

In one sentence - what is your main area of expertise in engine development?

Have you lead a team of 10-15 engineers? Please indicate where in your work history.

Have you been design responsible for a clean sheet engine program? In what capacity?

How much time do you prefer to spend in engineering offices/meetings, vs in the lab?

Explain a time when you have faced difficulty correlating experimental and simulation results, and how you managed:

Describe how you motivate a "difficult" but important contractor or direct report?

How many patents do you have?

How many engine-related papers have you published?

What is the greatest achievement of your career, from an innovation perspective?

Do you have an M.S. or PH.D. ?

From 1(novice) to 10(industry expert), rate your understanding of:
a) thermodynamics
b) heat transfer
c) mechanical design
d) Diesel Engines
e) SI engines.

Have you written a winning proposal?

Do you have a deep understanding of modern efficiency improvement technologies such as boosting, HCCI, friction reduction, or other?

What is your expertise (1-10) in engine simulation tools such as:
a) Solidworks
b) GT-Suite
c) CONVERGE CFD
d) Thermal and structural FEA?

Are you, personally, capable of making modification to:
a) dyno equipment
b) data acquisition
c) control system ?

Do you enjoy getting your hands dirty:
a) Do you know how to operate manual or CNC equipment?

b) Have you ever rebuilt an engine?
c) Made major modification to a personal engine or vehicle?
d) Have you ever had to sweep the floor in the shop?

Have you ever interviewed/hired people? Have you built and lead a World-class Team?

Do you have experience in a Research environment? What is the minimum ratio of (work related) good to bad days can you tolerate without getting depressed?

Do you have a permit to work in the US?

What do you want to accomplish in the next 5 years of your career?

What do you think are the biggest technical challenges faced by Liquid Piston?

What do you think are the biggest non-technical challenges faced by Liquid Piston?

What do you like about LiquidPiston's design?

In one sentence - why do you want to work for LiquidPiston?