

A photograph of an offshore oil rig at night, illuminated by blue and white lights. The rig's complex structure of pipes and towers is silhouetted against a dark sky. The water in the foreground reflects the lights. The overall scene is industrial and dramatic.

Trelleborg Sealing Solutions

Daniel Grainger

Testing of Water Glycol Fluids on Common Seal Materials

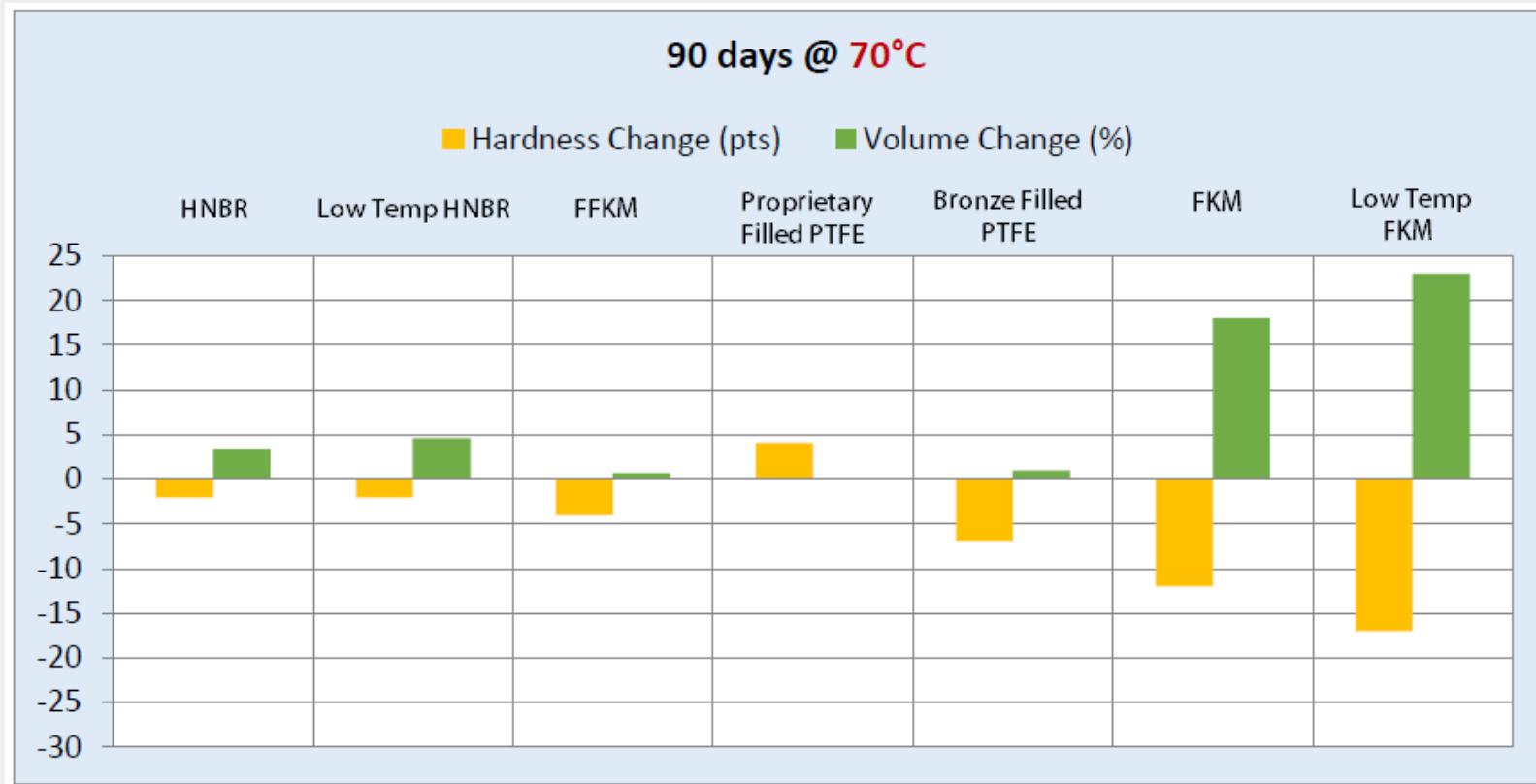
Challenges Being Addressed

What issues are these fluids addressing in the market?

- Deeper Water Depths
- High Pressure High Temperature Wells
- Low Temperatures in Extreme Locations
- Longer Service Life (“Life of Field”)
- Environmental Concerns

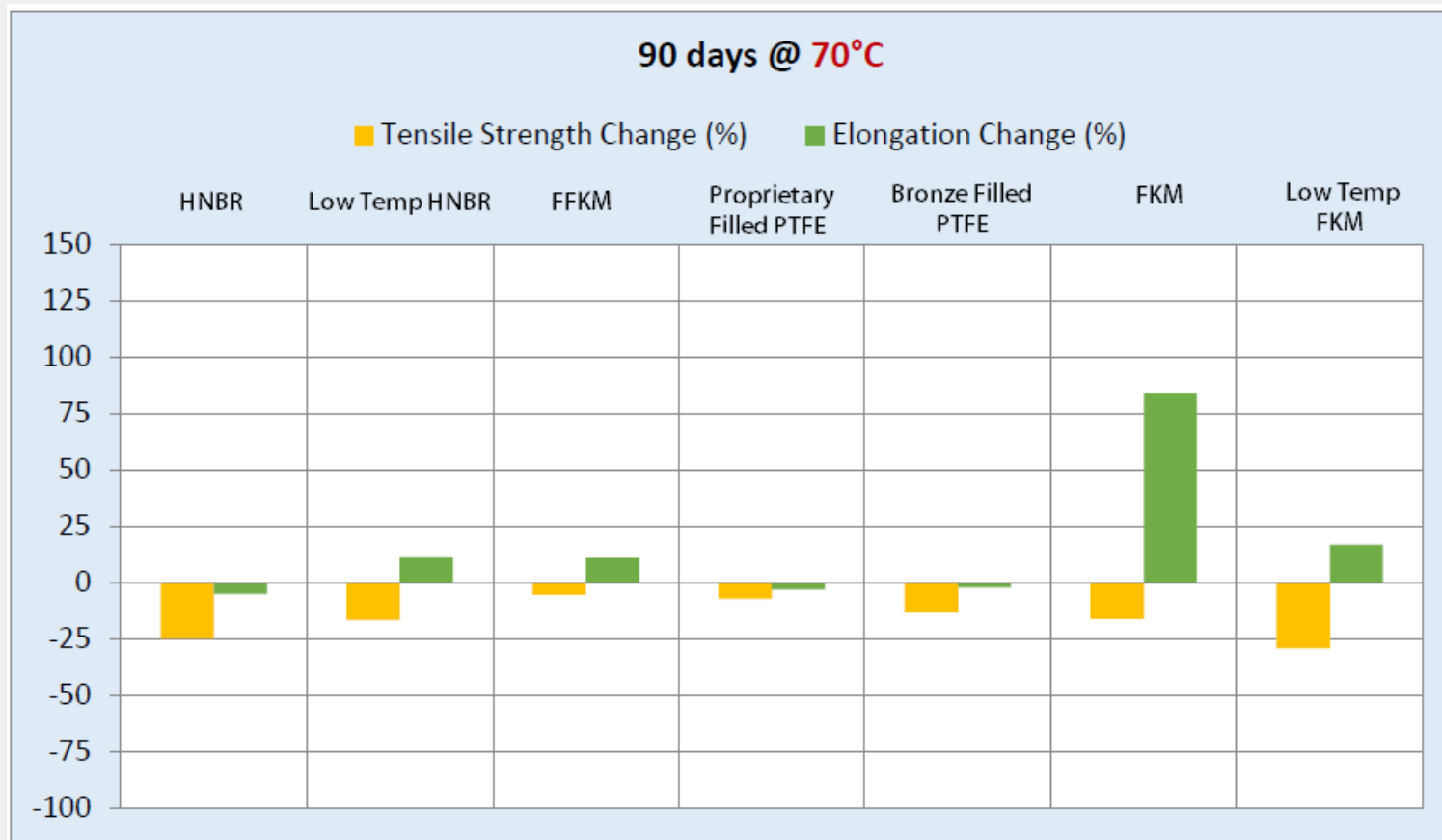
Where Have We Come From?

Hardness & Volume Change of Seal Materials with a Typical High Temperature Subsea Production Control Fluid



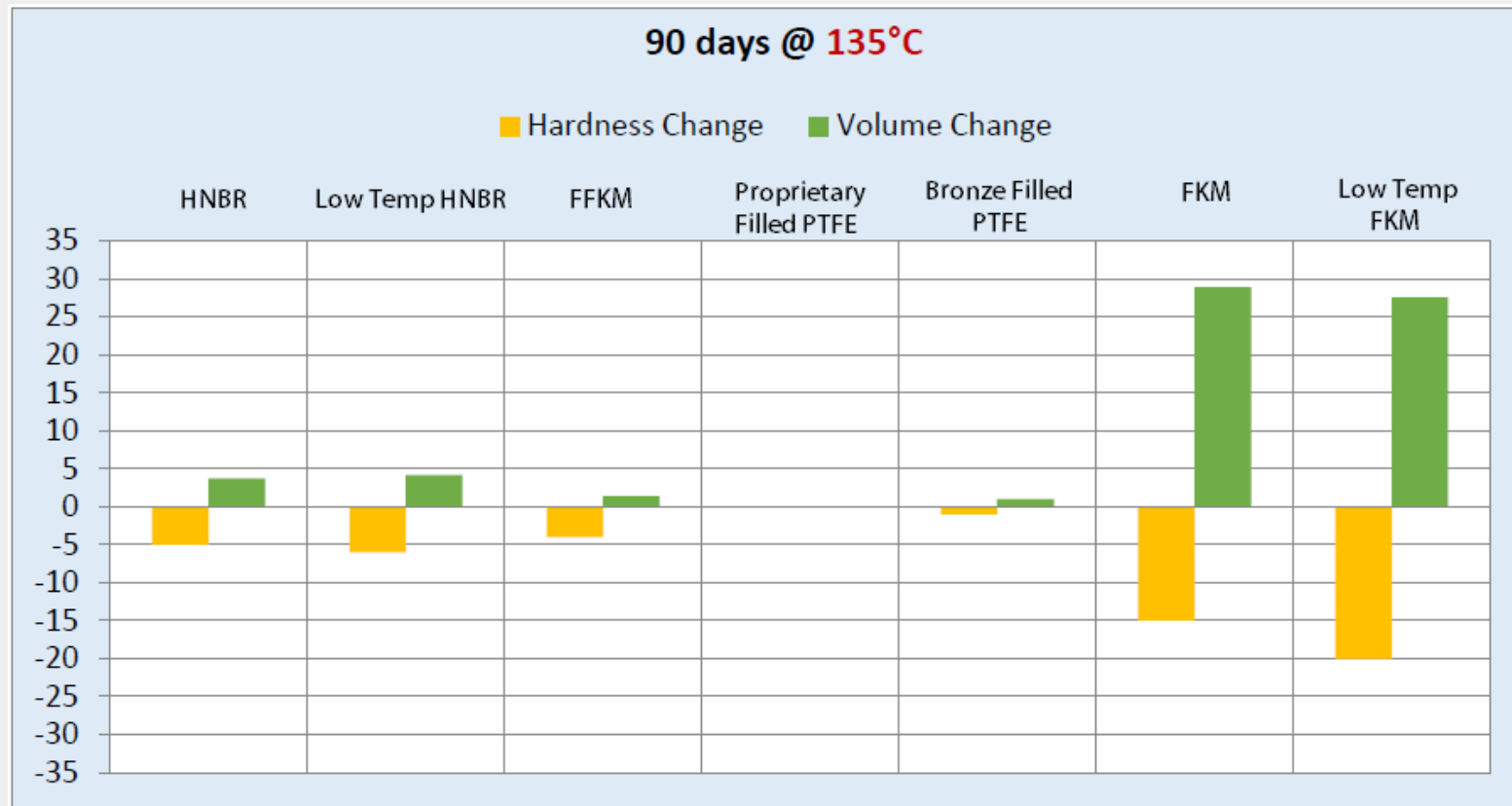
Where Have We Come From?

Tensile & Elongation Change of Seal Materials with a Typical High Temperature Subsea Production Control Fluid



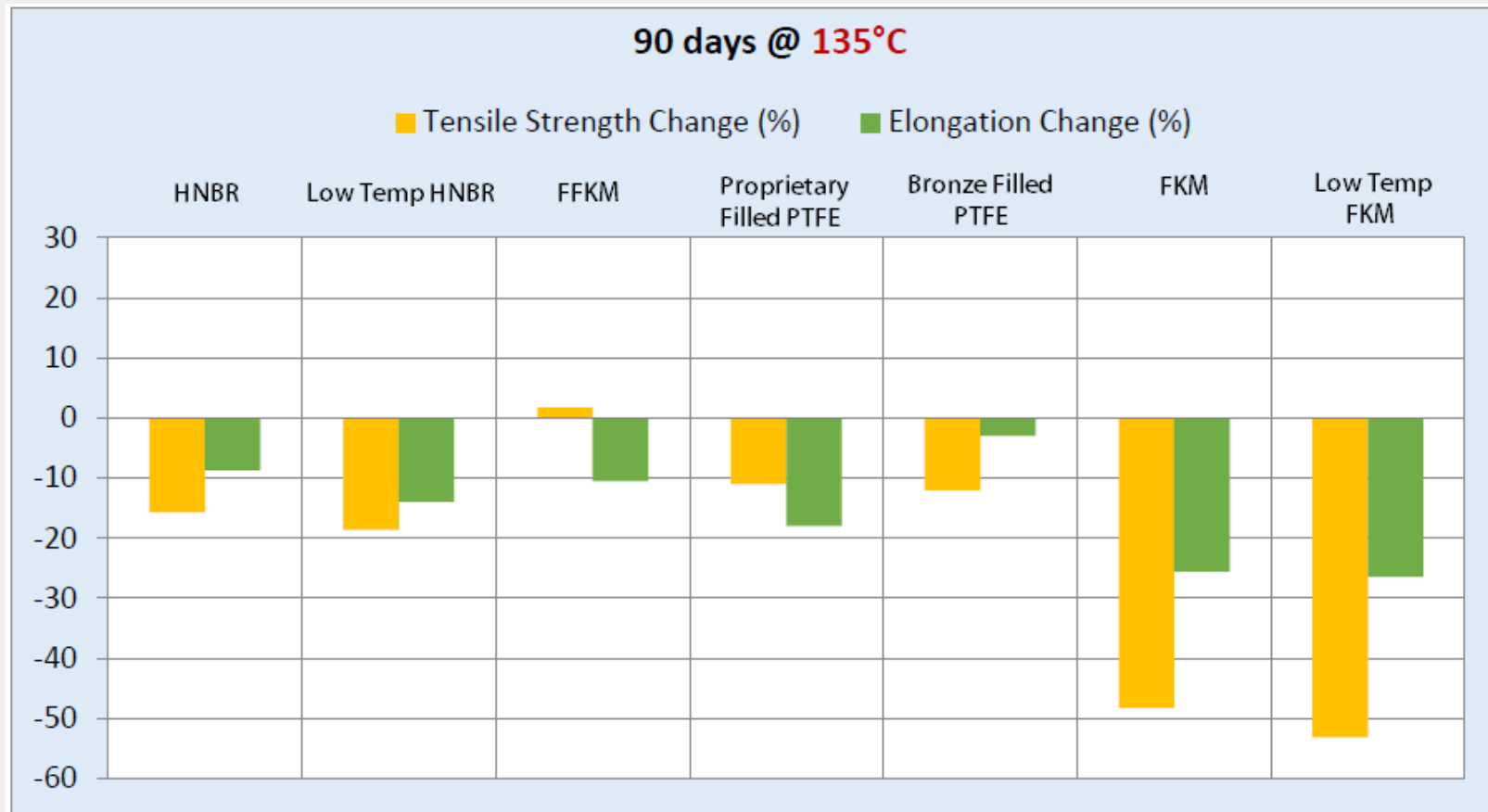
Where Are We Now?

Hardness & Volume Change of Seal Materials with a Typical High Temperature Subsea Production Control Fluid



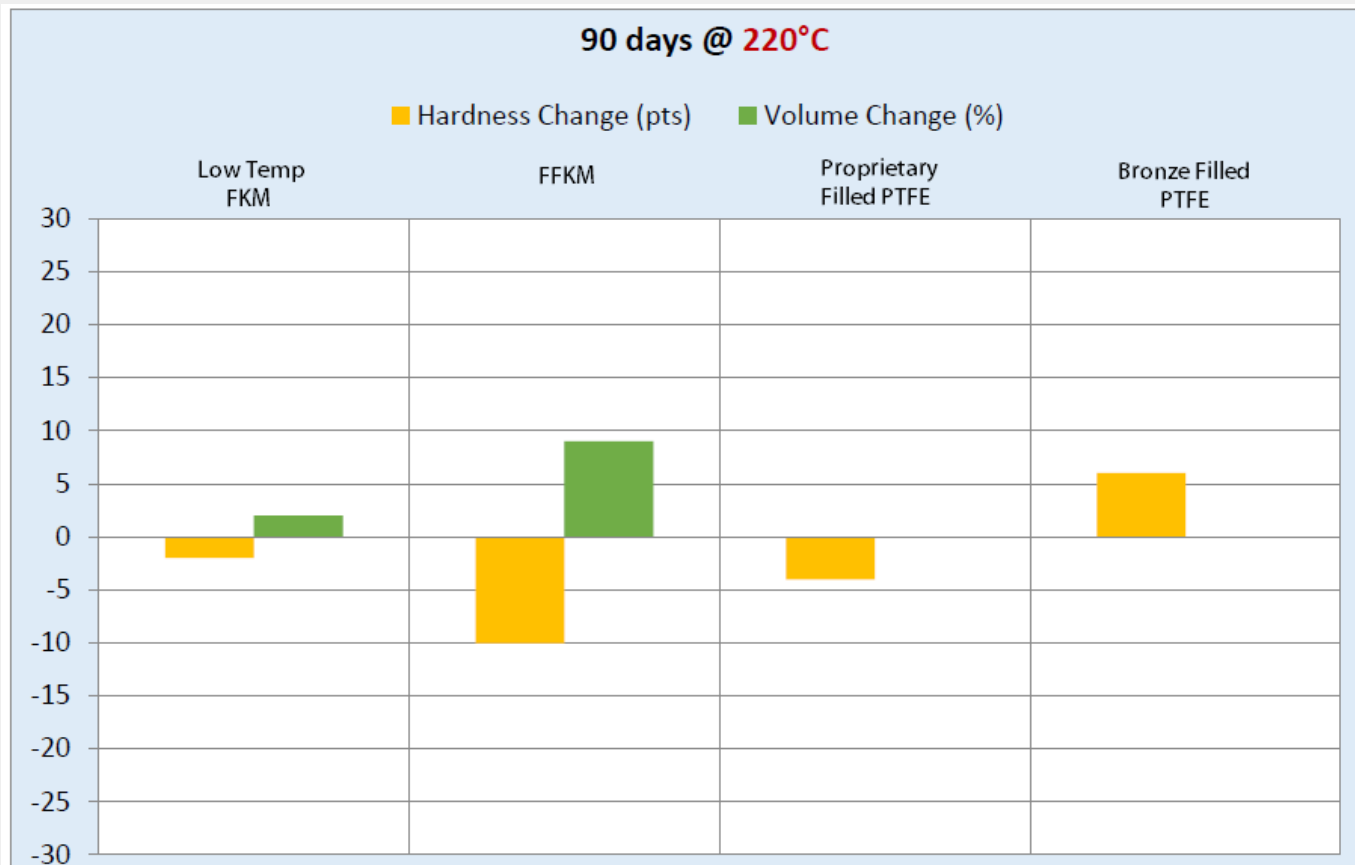
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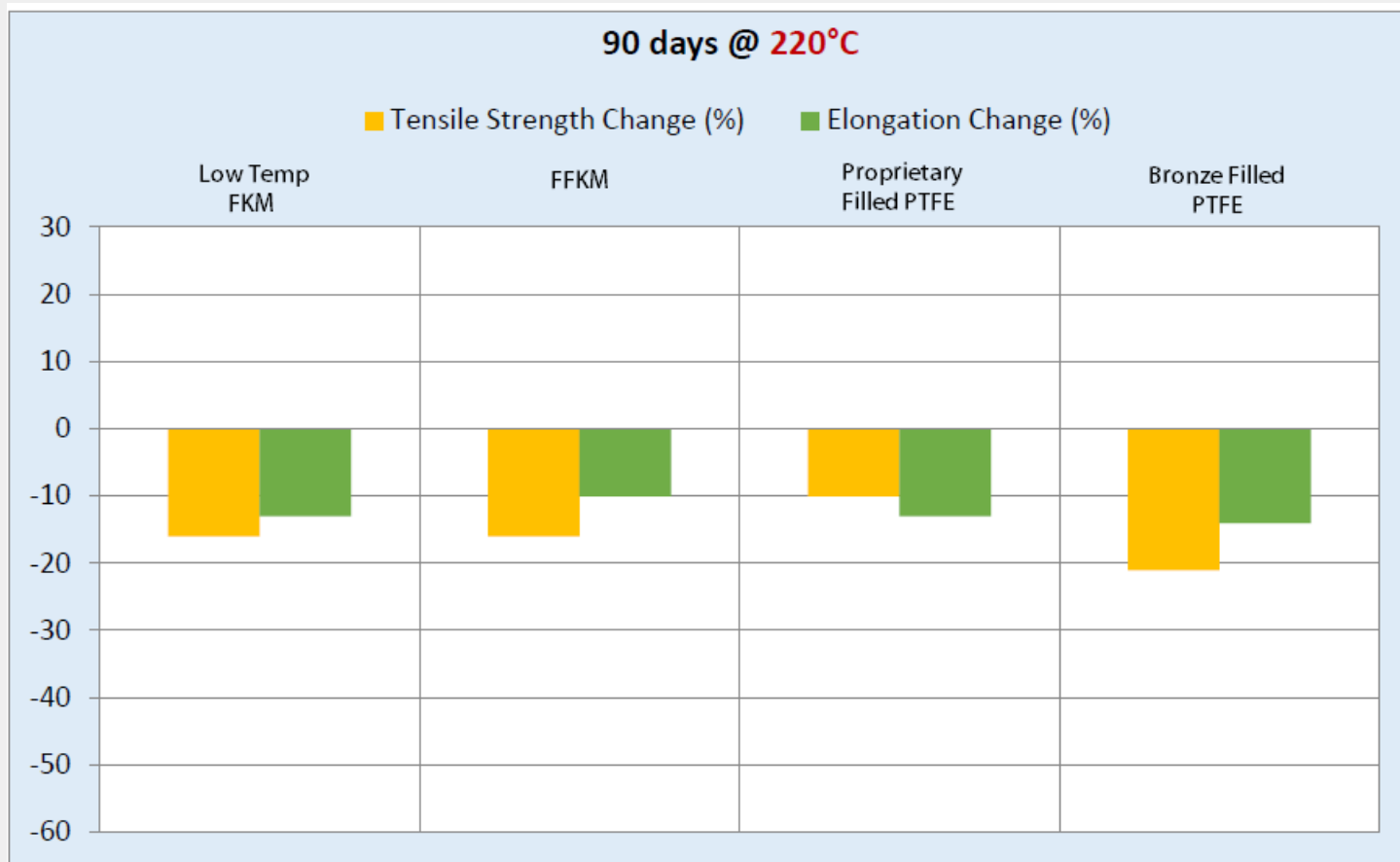
Where Are We Heading?

Hardness & Volume Change of Seal Materials with a Next Gen Extreme High Temperature Subsea Production Control Fluid



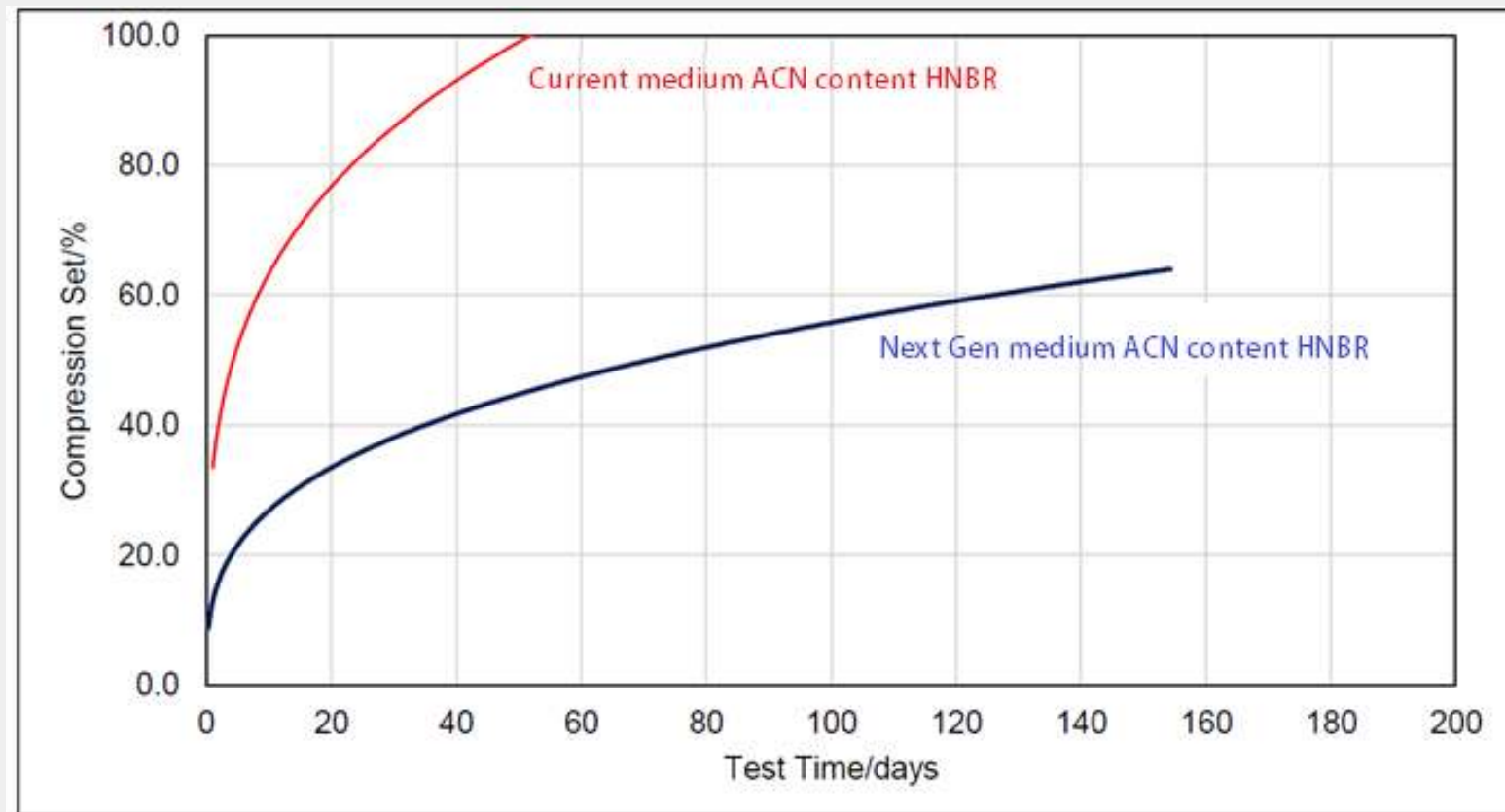
Where Are We Heading?

Hardness & Volume Change of Seal Materials with a Next Gen Extreme High Temperature Subsea Production Control Fluid



What Are We Doing To Get There?

Development of Compounds for Elevated Temperatures with Lower Compression Set (Test Temp: +125°C)





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