*Discovery Engine Test Brief*

Configuration

| Test Identifier | Test Type | Date |
| --- | --- | --- |
| CF-F1 | Ethanol Cold Flow | 06 July 2024 |

Roles

| Test Director | Control | Pad | Operator | Safety |
| --- | --- | --- | --- | --- |
| Liam X. | Will T. | Akhil A. | Jessie L. | Talon dF. |

**Setup objectives:**

* Fill and transport ethanol tank successfully.
* Assemble full ethanol plumbing from FT to engine.
* Assemble pressurant line plumbing, including side-mounted large servo (BVFTP).

**Test objectives:**

* Characterize MFV actuation under ethanol backpressure.
* Validate chamber pressurization system.
* Acquire full data as if this were a complete characterization test.
* Operate smoothly.

**System deviations from standard test:**

* The cavitation venturi is not fully machined — will result in lower flow rates than desired.

**Procedural deviations from standard test:**

* Filling the fuel tank to 1.1kg instead of the full 2.2kg to conserve ethanol.