CE3105 Mechanics of Fluids Laboratory Department of Civil Engineering Texas Tech University

Experiment: Two Stage Centrifugal Pump Characteristics - Data Sheet

Date of Experiment: \_\_**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**\_\_ Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Temperature of water, T= \_\_\_\_\_\_\_\_ ◦Celsius Water density, ρ = \_\_\_\_\_\_\_(lb/ft3) Gravity, g= 32.2 (ft/s2

**Single Pump Test:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **P2** | **P3** | **P4** | **Δ P** | **Torque**  **(1)** | **Pump1**  **(N1)** | **W1** | **H** | **Q** | **W2** | **ŋ** |
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**Series Pump Test:**

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| **P2** | **P3** | **P4** | **Δ P** | **Torque**  **(1)** | **Torque**  **(2)** | **Pump1**  **(N1)** | **Pump2**  **(N2)** | **Pump1**  **W1** | **Pump2**  **W2** | **H** | **Q** | **W2** | **ŋ** |
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**Parallel Pump Test:**

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| **P2** | **P3** | **Avg Inlet**  **Press** | **P4** | **Δ P** | **Torque**  **(1)** | **Torque**  **(2)** | **Pump1**  **(N1)** | **Pump2**  **(N2)** | **Pump1**  **W1** | **Pump2**  **W2** | **H** | **Q** | **W2** | **ŋ** |
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**Instructor’s Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Don Bundock**