

Analytics Integration Test - Mixed Tags

Test report with both analog and digital tags

Report Period: 1/1/2024, 11:00:00 AM - 1/1/2024, 12:30:00 PM

Generated: 1/22/2026, 7:43:08 AM

Tags: FLOW_01, PUMP_STATUS

Data Points: 160

Format: PDF

Executive Summary

This report analyzes 2 tag(s) over the specified time period, containing a total of 160 data points. The analysis includes statistical summaries, trend analysis, and data quality metrics.

Key Findings:

- FLOW_01: Average 49.75, Range 42.04 - 57.94, Data Quality 100.0%
- PUMP_STATUS: Average 0.59, Range 0.00 - 1.00, Data Quality 100.0%

Tag: FLOW_01

Data Points: 80

Time Range: 1/1/2024, 11:00:00 AM - 1/1/2024, 12:19:00 PM

Statistical Summary:

Minimum: 42.04

Maximum: 57.94

Average: 49.75

Standard Deviation: 8.00

Data Quality: 100.0%

Data Quality Breakdown:

Good Quality: 80 (100.0%)

Bad Quality: 0 (0.0%)

Uncertain Quality: 0 (0.0%)

Tag: PUMP_STATUS

Data Points: 80

Time Range: 1/1/2024, 11:00:00 AM - 1/1/2024, 12:19:00 PM

Statistical Summary:

Minimum: 0.00

Maximum: 1.00

Average: 0.59

Standard Deviation: 0.50

Data Quality: 100.0%

Data Quality Breakdown:

Good Quality: 80 (100.0%)

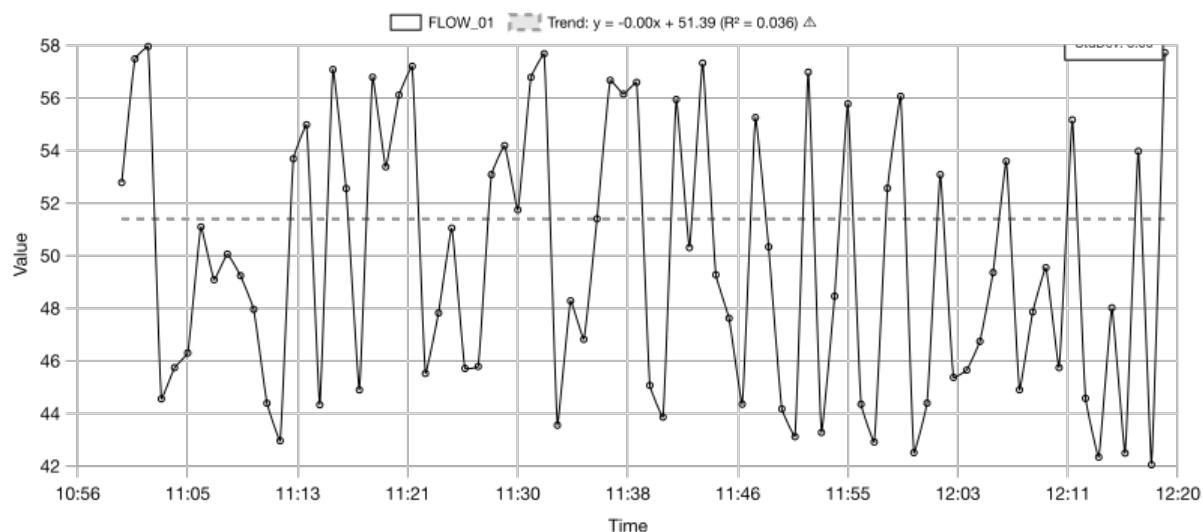
Bad Quality: 0 (0.0%)

Uncertain Quality: 0 (0.0%)

Data Visualizations

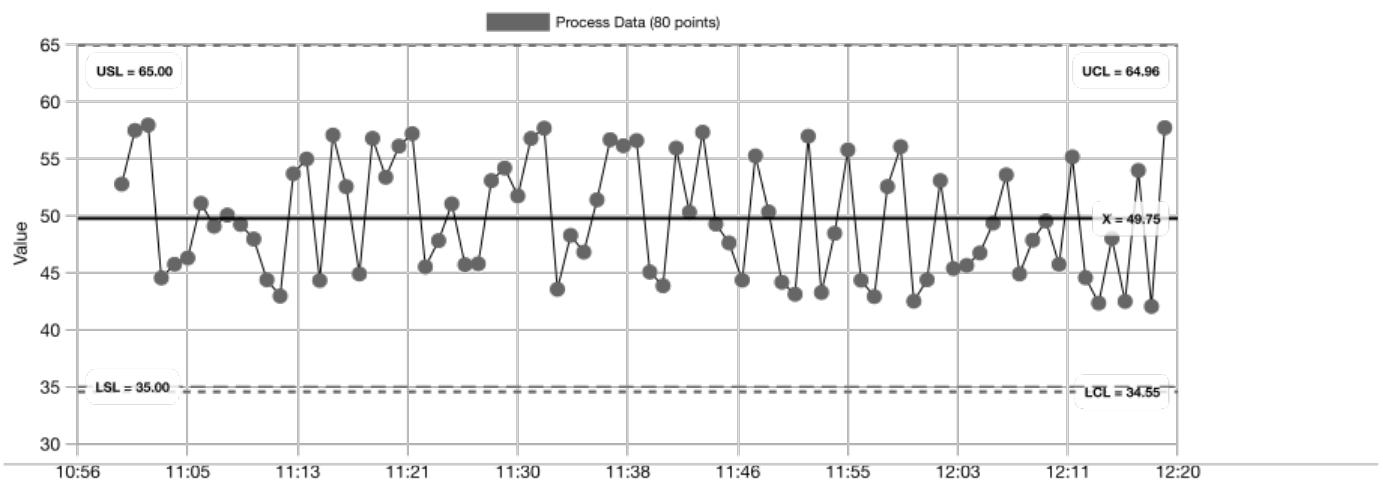
FLOW_01 - Data Trend

FLOW_01 - Time Series Data



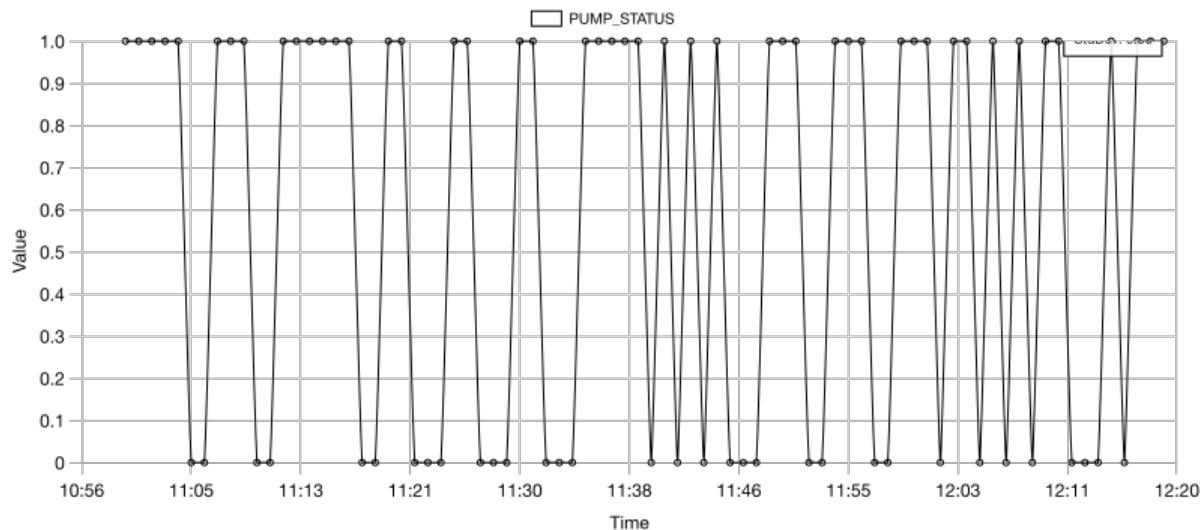
FLOW_01 - SPC Chart

FLOW_01 - Statistical Process Control Chart
 $\sigma = 5.07$ | $C_p = 0.99$, $C_{pk} = 0.97$



PUMP_STATUS - Data Trend

PUMP_STATUS - Time Series Data



SPC Metrics Summary

Tag Name	X0@	<6W7@	LSL	USL	Cp	Cpk	Capability
FLOW_01	49.75	5.07	35.00	65.00	0.99	0.97	Not Capable

Data Table: FLOW_01

Timestamp	Value	Quality Code	Status
1/1/2024, 11:00:00 AM	52.77	192	Good
1/1/2024, 11:01:00 AM	57.47	192	Good
1/1/2024, 11:02:00 AM	57.94	192	Good
1/1/2024, 11:03:00 AM	44.54	192	Good
1/1/2024, 11:04:00 AM	45.73	192	Good
1/1/2024, 11:05:00 AM	46.29	192	Good
1/1/2024, 11:06:00 AM	51.08	192	Good
1/1/2024, 11:07:00 AM	49.07	192	Good
1/1/2024, 11:08:00 AM	50.05	192	Good
1/1/2024, 11:09:00 AM	49.23	192	Good
1/1/2024, 11:10:00 AM	47.94	192	Good
1/1/2024, 11:11:00 AM	44.37	192	Good
1/1/2024, 11:12:00 AM	42.95	192	Good
1/1/2024, 11:13:00 AM	53.67	192	Good
1/1/2024, 11:14:00 AM	54.97	192	Good
1/1/2024, 11:15:00 AM	44.32	192	Good
1/1/2024, 11:16:00 AM	57.07	192	Good
1/1/2024, 11:17:00 AM	52.54	192	Good
1/1/2024, 11:18:00 AM	44.88	192	Good
1/1/2024, 11:19:00 AM	56.77	192	Good
1/1/2024, 11:20:00 AM	53.37	192	Good
1/1/2024, 11:21:00 AM	56.10	192	Good
1/1/2024, 11:22:00 AM	57.19	192	Good
1/1/2024, 11:23:00 AM	45.51	192	Good
1/1/2024, 11:24:00 AM	47.81	192	Good
1/1/2024, 11:25:00 AM	51.03	192	Good
1/1/2024, 11:26:00 AM	45.70	192	Good
1/1/2024, 11:27:00 AM	45.77	192	Good
1/1/2024, 11:28:00 AM	53.07	192	Good
1/1/2024, 11:29:00 AM	54.17	192	Good
1/1/2024, 11:30:00 AM	51.73	192	Good
1/1/2024, 11:31:00 AM	56.77	192	Good
1/1/2024, 11:32:00 AM	57.67	192	Good

1/1/2024, 11:33:00 AM	43.54	192	Good
1/1/2024, 11:34:00 AM	48.27	192	Good
1/1/2024, 11:35:00 AM	46.80	192	Good
1/1/2024, 11:36:00 AM	51.39	192	Good
1/1/2024, 11:37:00 AM	56.66	192	Good
1/1/2024, 11:38:00 AM	56.13	192	Good
1/1/2024, 11:39:00 AM	56.58	192	Good
1/1/2024, 11:40:00 AM	45.05	192	Good
1/1/2024, 11:41:00 AM	43.85	192	Good
1/1/2024, 11:42:00 AM	55.92	192	Good
1/1/2024, 11:43:00 AM	50.29	192	Good
1/1/2024, 11:44:00 AM	57.31	192	Good
1/1/2024, 11:45:00 AM	49.26	192	Good
1/1/2024, 11:46:00 AM	47.61	192	Good
1/1/2024, 11:47:00 AM	44.34	192	Good
1/1/2024, 11:48:00 AM	55.24	192	Good
1/1/2024, 11:49:00 AM	50.32	192	Good
1/1/2024, 11:50:00 AM	44.16	192	Good
1/1/2024, 11:51:00 AM	43.10	192	Good
1/1/2024, 11:52:00 AM	56.97	192	Good
1/1/2024, 11:53:00 AM	43.26	192	Good
1/1/2024, 11:54:00 AM	48.45	192	Good
1/1/2024, 11:55:00 AM	55.76	192	Good
1/1/2024, 11:56:00 AM	44.34	192	Good
1/1/2024, 11:57:00 AM	42.90	192	Good
1/1/2024, 11:58:00 AM	52.55	192	Good
1/1/2024, 11:59:00 AM	56.05	192	Good
1/1/2024, 12:00:00 PM	42.50	192	Good
1/1/2024, 12:01:00 PM	44.38	192	Good
1/1/2024, 12:02:00 PM	53.07	192	Good
1/1/2024, 12:03:00 PM	45.36	192	Good
1/1/2024, 12:04:00 PM	45.63	192	Good
1/1/2024, 12:05:00 PM	46.73	192	Good
1/1/2024, 12:06:00 PM	49.34	192	Good
1/1/2024, 12:07:00 PM	53.58	192	Good

1/1/2024, 12:08:00 PM	44.89	192	Good
1/1/2024, 12:09:00 PM	47.85	192	Good
1/1/2024, 12:10:00 PM	49.53	192	Good
1/1/2024, 12:11:00 PM	45.73	192	Good
1/1/2024, 12:12:00 PM	55.15	192	Good
1/1/2024, 12:13:00 PM	44.56	192	Good
1/1/2024, 12:14:00 PM	42.33	192	Good
1/1/2024, 12:15:00 PM	48.00	192	Good
1/1/2024, 12:16:00 PM	42.48	192	Good
1/1/2024, 12:17:00 PM	53.96	192	Good
1/1/2024, 12:18:00 PM	42.04	192	Good
1/1/2024, 12:19:00 PM	57.71	192	Good

Data Table: PUMP_STATUS

Timestamp	Value	Quality Code	Status
1/1/2024, 11:00:00 AM	1.00	192	Good
1/1/2024, 11:01:00 AM	1.00	192	Good
1/1/2024, 11:02:00 AM	1.00	192	Good
1/1/2024, 11:03:00 AM	1.00	192	Good
1/1/2024, 11:04:00 AM	1.00	192	Good
1/1/2024, 11:05:00 AM	0.00	192	Good
1/1/2024, 11:06:00 AM	0.00	192	Good
1/1/2024, 11:07:00 AM	1.00	192	Good
1/1/2024, 11:08:00 AM	1.00	192	Good
1/1/2024, 11:09:00 AM	1.00	192	Good
1/1/2024, 11:10:00 AM	0.00	192	Good
1/1/2024, 11:11:00 AM	0.00	192	Good
1/1/2024, 11:12:00 AM	1.00	192	Good
1/1/2024, 11:13:00 AM	1.00	192	Good
1/1/2024, 11:14:00 AM	1.00	192	Good
1/1/2024, 11:15:00 AM	1.00	192	Good
1/1/2024, 11:16:00 AM	1.00	192	Good
1/1/2024, 11:17:00 AM	1.00	192	Good
1/1/2024, 11:18:00 AM	0.00	192	Good
1/1/2024, 11:19:00 AM	0.00	192	Good
1/1/2024, 11:20:00 AM	1.00	192	Good
1/1/2024, 11:21:00 AM	1.00	192	Good
1/1/2024, 11:22:00 AM	0.00	192	Good
1/1/2024, 11:23:00 AM	0.00	192	Good
1/1/2024, 11:24:00 AM	0.00	192	Good
1/1/2024, 11:25:00 AM	1.00	192	Good
1/1/2024, 11:26:00 AM	1.00	192	Good
1/1/2024, 11:27:00 AM	0.00	192	Good
1/1/2024, 11:28:00 AM	0.00	192	Good
1/1/2024, 11:29:00 AM	0.00	192	Good
1/1/2024, 11:30:00 AM	1.00	192	Good
1/1/2024, 11:31:00 AM	1.00	192	Good
1/1/2024, 11:32:00 AM	0.00	192	Good

1/1/2024, 11:33:00 AM	0.00	192	Good
1/1/2024, 11:34:00 AM	0.00	192	Good
1/1/2024, 11:35:00 AM	1.00	192	Good
1/1/2024, 11:36:00 AM	1.00	192	Good
1/1/2024, 11:37:00 AM	1.00	192	Good
1/1/2024, 11:38:00 AM	1.00	192	Good
1/1/2024, 11:39:00 AM	1.00	192	Good
1/1/2024, 11:40:00 AM	0.00	192	Good
1/1/2024, 11:41:00 AM	1.00	192	Good
1/1/2024, 11:42:00 AM	0.00	192	Good
1/1/2024, 11:43:00 AM	1.00	192	Good
1/1/2024, 11:44:00 AM	0.00	192	Good
1/1/2024, 11:45:00 AM	1.00	192	Good
1/1/2024, 11:46:00 AM	0.00	192	Good
1/1/2024, 11:47:00 AM	0.00	192	Good
1/1/2024, 11:48:00 AM	0.00	192	Good
1/1/2024, 11:49:00 AM	1.00	192	Good
1/1/2024, 11:50:00 AM	1.00	192	Good
1/1/2024, 11:51:00 AM	1.00	192	Good
1/1/2024, 11:52:00 AM	0.00	192	Good
1/1/2024, 11:53:00 AM	0.00	192	Good
1/1/2024, 11:54:00 AM	1.00	192	Good
1/1/2024, 11:55:00 AM	1.00	192	Good
1/1/2024, 11:56:00 AM	1.00	192	Good
1/1/2024, 11:57:00 AM	0.00	192	Good
1/1/2024, 11:58:00 AM	0.00	192	Good
1/1/2024, 11:59:00 AM	1.00	192	Good
1/1/2024, 12:00:00 PM	1.00	192	Good
1/1/2024, 12:01:00 PM	1.00	192	Good
1/1/2024, 12:02:00 PM	0.00	192	Good
1/1/2024, 12:03:00 PM	1.00	192	Good
1/1/2024, 12:04:00 PM	1.00	192	Good
1/1/2024, 12:05:00 PM	0.00	192	Good
1/1/2024, 12:06:00 PM	1.00	192	Good
1/1/2024, 12:07:00 PM	0.00	192	Good

1/1/2024, 12:08:00 PM	1.00	192	Good
1/1/2024, 12:09:00 PM	0.00	192	Good
1/1/2024, 12:10:00 PM	1.00	192	Good
1/1/2024, 12:11:00 PM	1.00	192	Good
1/1/2024, 12:12:00 PM	0.00	192	Good
1/1/2024, 12:13:00 PM	0.00	192	Good
1/1/2024, 12:14:00 PM	0.00	192	Good
1/1/2024, 12:15:00 PM	1.00	192	Good
1/1/2024, 12:16:00 PM	0.00	192	Good
1/1/2024, 12:17:00 PM	1.00	192	Good
1/1/2024, 12:18:00 PM	1.00	192	Good
1/1/2024, 12:19:00 PM	1.00	192	Good

Statistical Summary

Tag	Min	Max	Average	Std Dev	Quality %
FLOW_01	42.04	57.94	49.75	8.00	100.0%
PUMP_STATUS	0.00	1.00	0.59	0.50	100.0%