

Pipeline Defect Detection Report

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Executive Summary

Total Pipes Analyzed: 10

Cracks Detected: 5

Corrosion Detected: 1

Dampness/Algae Detected: 1

Invalid Images: 1

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Detailed Analysis

1. PIPE_001 - CRACK



Status: CRACK

Affected Area: 50.82%

Explanation:

CRACK Detected! Found 1 linear region(s). Geometry: High Aspect Ratio.

2. PIPE_002 - INVALID



Status: INVALID

Affected Area: 0.0%

Explanation:

INVALID: No Pipe Detected. Largest Object is only 5.0% of image (Threshold 10%).

3. PIPE_003 - HEALTHY



Status: HEALTHY

Affected Area: 99.96%

Explanation:

Minor anomalies detected but classified as Normal/Noise.

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4. PIPE_004 - CRACK



Status: CRACK

Affected Area: 74.63%

Explanation:

CRACK Detected! Found 2 linear region(s). Geometry: High Aspect Ratio.

5. PIPE_005 - CORROSION



Status: CORROSION

Affected Area: 66.84%

Explanation:

CORROSION Detected. Found 4 irregular region(s). Geometry: High Solidity + Red/Brown Color.

6. PIPE_006 - DAMP



Status: DAMP

Affected Area: 64.39%

Explanation:

DAMP Detected. Found 2 spread region(s). Geometry: Low Continuity + Dark/Desaturated.

7. PIPE_007 - CRACK



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Status: CRACK

Affected Area: 39.8%

Explanation:

CRACK Detected! Found 1 linear region(s). Geometry: High Aspect Ratio.

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8. PIPE_008 - CRACK



Status: CRACK

Affected Area: 72.45%

Explanation:

CRACK Detected! Found 4 linear region(s). Geometry: High Aspect Ratio.

9. PIPE_009 - HEALTHY



Status: HEALTHY

Affected Area: 61.89%

Explanation:

Minor anomalies detected but classified as Normal/Noise.

10. PIPE_010 - CRACK



Status: CRACK

Affected Area: 24.01%

Explanation:

CRACK Detected! Found 2 linear region(s). Geometry: High Aspect Ratio.