Summary Report

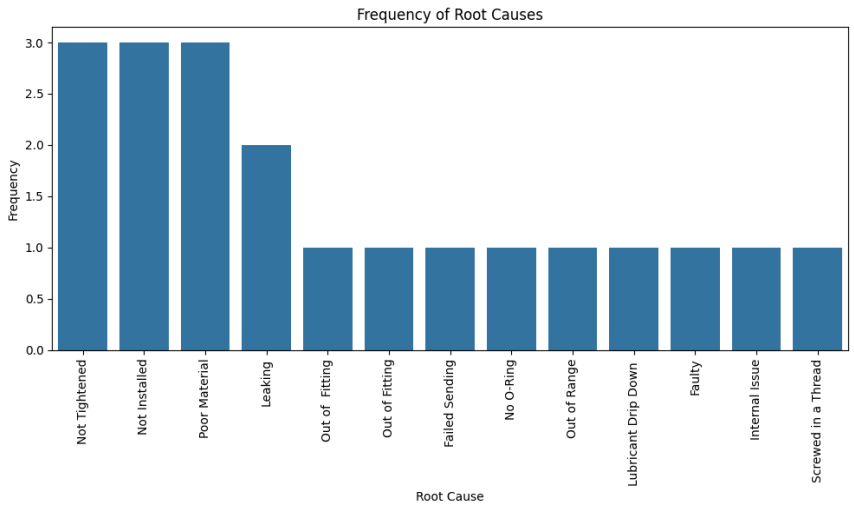
1. **Approaching the tagging of each given field:**

   Approach for Each Field:

- **Root Cause:** For 'Root Cause,' analysis of the 'Cause' text identifies the fundamental underlying issue, directly mapping to the 'Root Cause' taxonomy (e.g., 'Not tighten at factory' maps to 'Not Tightened').
- **Symptom Condition:** For 'Symptom Conditions 1,2 and 3,' the 'Complaint' text is deeply analyzed understand the semantics for problems (e.g., 'Loose,' 'Crushed'). Up to three distinct conditions are extracted from the 'Symptom Condition' taxonomy. Unused slots are marked '-' for structural consistency.
- **Symptom Component:** The 'Symptom Component 1,2 and 3' identifies the specific affected part or system from the 'Complaint' text (e.g., 'Fuel Door,' 'Cab P Clip'). Here the Complaint Text is semantically Observed for Word Embeddings with given taxonomy. Up to three components are tagged from the 'Symptom Component' taxonomy, with 'Not Mentioned' for any remaining slots.
- **Fix Condition:** In 'Fix Condition 1,2 and 3,' the 'Correction' text informs the nature or method of the resolution (e.g., 'Retightened,' 'Installed'). The Given Correction Text is somewhat unclear it is clearly understood first, Up to three distinct fix methods are extracted and mapped to the 'Fix Condition' taxonomy, using 'Not Mentioned' for unused slots.
- **Fix Component:** Finally, 'Fix Component 1,2 and 3' specifies the particular part or system that was addressed or modified during the correction, also from the 'Correction' text (e.g., 'Gas Strut,' 'Bolts'). Up to three components are tagged from the 'Fix Component' taxonomy, with 'Not Mentioned' filling any remaining slots.

2. **Here are key potential insights that can be generated:**

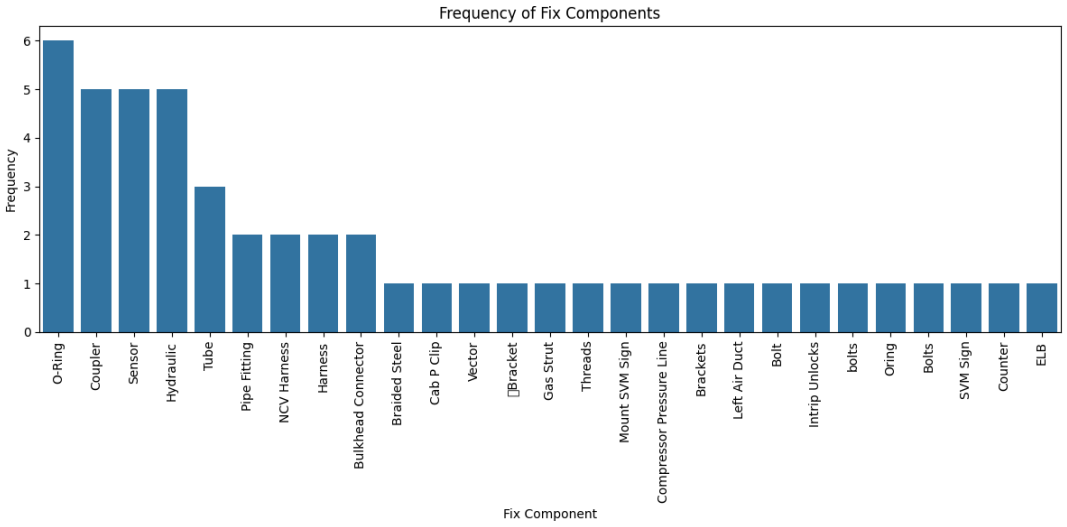
   Frequency of the Root causes:



Key Insights

1. **Top Issues**: "Not Tightened", "Not Installed", and "Poor Material" are the most frequent root causes, each occurring 3 times.
2. **Moderate Concern**: "Leaking" appears twice, indicating a recurring but less critical issue.
3. **Low Frequency Causes:** All other issues occurred only once, suggesting they are less common or isolated.

Visualize frequently involved fix components and conditions:



- Top Fix: *O-Ring* is the most frequently fixed component (6 times), indicating a recurring issue.

- Common Fixes: *Coupler*, *Sensor*, and *Hydraulic* components are also frequent, each appearing 5 times.

- Long Tail: Majority of components (like *Bracket*, *Bolt*, *ELB*) appear only once, suggesting varied but infrequent issues.

Key Findings Summary:

1. High-Frequency Complaint Associations:
    - The complaint “Fasteners under cab on P clips and air ducting left loose” is primarily linked to the Bulkhead Connector.
    - The issue “Fuel door will not stay open” is consistently associated with the Fuel Door component.
2. Most Common Fix Components:
    - O-Ring, Coupler, Sensor, and Hydraulic appear most often in fix records.
3. Consistent Cause–Root–Correction Patterns:
    - A strong one-to-one mapping exists between each Cause, Root Cause, and Correction, indicating clear diagnostic relationships.