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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Owner/Operator** |  | **Report No** |  | **Report Date;** |  |  |  |  |  |  |
| **Address** |  |  | | **Next Inspection Due ↓** |  |  |  |  |  |  |
| **Date Commissioned** |  |  | | (2)Vessel External: mm/yyyy  (4)Vessel Int. & Ext: mm/yyyy  (1)PSV Ext:  (4)PSV Test: |  |  |  |  |  |
| **Inspection** | **Date:-** | **Internal:- Yes / No** | |  |  |  |  |  |
| **Inspector / company** |  |  | |  |  |  |  |  |
| **Previous inspection Date** |  |  | |  |  |  |  |  |

**Air Receiver**

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| **DOM** | | **Serial No** | | | **Contents** | | **Design MPa** | | **Volume** | |
|  | |  | | | Air | |  | |  | |
| **Design App** | **Registration No** | | **Hazard Level** | | **Design Temperature °C** | | **Corrosion Allowance** | | |
|  |  | |  | |  | |  | | |
| **Description/ Site - Equip No** | | | | | **Location** | | **Length** | | **Diameter** | |
|  | | | | |  | |  | |  | |
| **Area Examined** | | | | | | Satisfactory(S)  Unsatisfactory(U)  or N/A | | Unsatisfactory(U)  **Reasons must be recorded** | | |
| Shell **(Stand well back from the vessel then inspect closely, particularly looking for damage and corrosion)** | | | | | |  | |  | | |
| Ends **(Stand well back from the vessel then inspect closely, particularly looking for damage and corrosion)** | | | | | |  | |  | | |
| Welded Joints **(visually check all welds especially at connections to the Receiver vessel.)** | | | | | |  | |  | | |
| Nozzles | | | | | |  | |  | | |
| Valves & Fittings (Excluding Relief Valve/s) | | | | | |  | |  | | |
| Vessel Supports **(Check for corrosion, cracking of grouting, missing bolts, if dirt covered remove to check)** | | | | | |  | |  | | |
| Alignment of Vessel on Supports  **(if horizontal, there should be a slight slope to the drain)** | | | | | |  | |  | | |
| Associated Pipework | | | | | |  | |  | | |
| Evidence Of Excessive Vibration **(feel vessel and connecting pipework, if on-line)** | | | | | |  | |  | | |
| Evidence of Cracking **(especially at connections to receiver and connected pipework)** | | | | | |  | |  | | |
| Decals/Signs **(Air receivers should be fitted with a decal “COMPRESSED AIR” or similar or painted light blue to indicate compressed air)** | | | | | |  | |  | | |
| Data Plate (ensure that Data agrees with receiver paperwork. Inspect for corrosion under the plate) | | | | | |  | |  | | |
| Drain Valve (manual or auto) (ensure there is evidence of it having been operated and if practicable carefully open it to ensure vessel has been drained) | | | | | |  | |  | | |
| Protective Coating (condition) | | | | | |  | |  | | |
| External Corrosion (Findings are mandatory for corrosion unless Nil) | | | | | |  | |  | | |
| Pressure Gauge: (Operating pressure should be in the middle third of the range and the maximum scale must be ≥ design pressure or relief valve setting, whichever is higher.) | | | | | |  | |  | | |
| Safety Barriers / Cage /Enclosure (protected from traffic / shielding for personnel) | | | | | |  | |  | | |
| Previous recommendations / actions completed? | | | | | |  | |  | | |
| **OTHER Areas specific to the air receiver:-** | | | | | |  | |  | | |
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| **Findings** | | | | **Recommended Actions** | | | | | | |
| The pressure gauge was not installed vertically.  A pressure gauge was not fitted. | | | | Install an elbow before the pressure gauge.  Install a pressure gauge vertically | | | | | | |
| The data plate was close fitting and corrosion was active behind the data plate. | | | | Remove the data plate and attach to a support leg. Ensuring the vessel shell is undamaged and thickness is not reduced. | | | | | | |
| Small chips and scratches were evident however only surface oxidation had occurred.  Small chips and scratches were evident and surface corrosion was visible.  *If the vessel is not either of these conditions or has Nil corrosion then the condition must be described.* | | | | Nil at this stage.  Spot repainting is recommended. | | | | | | |
| No decals were fitted and the vessel was painted ……………... The contents of a vessel sitting on top of an air compressor are obvious. Not required. | | | | Fit a decal “COMPRESSED AIR” or similar, or paint the vessel light blue to indicate compressed air. | | | | | | |

**Report No:………………**

**Pressure Relief Device**

AS1210 3.2.1.1 Where safety valves are used, the design pressure is often assumed to be 5 percent to 10 percent above the operating pressure at the most severe condition.

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| **Site/Equip No** | **Serial No** | | | **PRD Type (lever lift, ring pull, rotor lift)** | | | | **Size NPT or BSP**  **Inlet Outlet** | | | | **Set**  **Pressure** | | **Fitting  Date** | |
|  |  | | |  | | | |  |  | | |  | |  | |
| **Manufacturer/ Part No** | | | **Compliance to AS1271, CE, ASME, or equivalent?** | | | | | | | | | | **Next Test Date** | |
|  | | |  | | | | | | | | | |  | |
| **Capacity of Valve** | |  | | | | **Flow Rate Required** | | | | |  | | | | |
| Area Examined | | | | | Satisfactory(S) or Nil or N/A or N/E **(no ticks or crosses)** | | Unsatisfactory | | | | | See Findings | | | |
| Set pressure (less than or equal to design pressure) | | | | |  | |  | | | | |  | | | |
| Capacity (greater than compressor output if the pressure output is also higher than vessel rating) | | | | |  | |  | | | | |  | | | |
| Tagged with tamper resistant seal | | | | |  | |  | | | | |  | | | |
| External mechanical damage | | | | |  | |  | | | | |  | | | |
| Discharge port | | | | |  | |  | | | | |  | | | |
| Leak check with bubble solution | | | | |  | |  | | | | |  | | | |
| Loading on valve from piping | | | | |  | |  | | | | |  | | | |
| **Findings** | | | | | | | | | | **Recommended Actions** | | | | | |
| Not tagged with tamper resistant seal. | | | | | | | | | |  | | | | | |
| Set pressure is less than or equal to design pressure and capacity is greater than required flow rate. | | | | | | | | | |  | | | | | |
| Not inspected when receiver pressurised. | | | | | | | | | |  | | | | | |
| Not fitted at the time of inspection. | | | | | | | | | |  | | | | | |
| Free operating. | | | | | | | | | |  | | | | | |
| *Fouling / Corrosion / Water ingress likely / evident.* | | | | | | | | | |  | | | | | |
| To be *tested and reset or* replaced with new at each internal inspection, and marked with installation date *and fitted with a tamper resistant seal.* | | | | | | | | | |  | | | | | |
| *Valves with easing gear should be operated if plant integrity will not be compromised.* | | | | | | | | | |  | | | | | |
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##### **Receiver Internal Examination**

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| Direct viewing through …………………………………..……………………………………………….. was carried out.  A boroscopic inspection was carried out *in conjunction with direct viewing through* ………………………………….  An internal visual examination was not practical. In consultation with the owner / operator an ultrasonic thickness survey has been substituted. | | | | |
| **Area Examined** | Satisfactory / Nil / N/A | | Unsatisfactory | See Findings |
| Deposits / Sludge accumulation |  | |  |  |
| Corrosion / Erosion |  | |  |  |
| Nozzles |  | |  |  |
| **Other relative to this Receiver:-** |  | |  |  |
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| **Findings** | | **Recommended Actions** | | |
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Report No:……………

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| Findings |  | Recommendation |
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Competent Person / Inspectors Name, (Certification and registration number if applicable): -

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Signature: ………………………………………………………. dd/mm/yyyy