## Periodic Lift Inspection Checklist

**ALOIM**

**Inspection Points - All Lifts (Appendix C, ALOIM/Current Edition)**

*Appendix C applies to all lifts including wheels free devices*

<table>
<thead>
<tr>
<th>ALOIM</th>
<th>Inspection Points</th>
<th>Pass</th>
<th>Fail</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.6.2.1</td>
<td>Record location of manufacturer instructions or generic instructions.</td>
<td>[ ]</td>
<td>[ ]</td>
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</tr>
<tr>
<td>5.6.2.2</td>
<td>Record location of generic safety instructions.</td>
<td>[ ]</td>
<td>[ ]</td>
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</tr>
<tr>
<td>5.6.2.3</td>
<td>Record location &amp; verify current edition of lifting point information.</td>
<td>[ ]</td>
<td>[ ]</td>
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</tr>
<tr>
<td>5.6.2.4</td>
<td>Check accessibility &amp; readability of safety warning labels.</td>
<td>[ ]</td>
<td>[ ]</td>
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</tr>
<tr>
<td>5.6.2.5</td>
<td>Record the rated load capacity of the lift.</td>
<td>[ ]</td>
<td>[ ]</td>
<td>[ ]</td>
</tr>
<tr>
<td>5.6.2.6</td>
<td>Record manufacturer name, model number &amp; serial number(s) on Inspection Certificate.</td>
<td>[ ]</td>
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<td>[ ]</td>
</tr>
</tbody>
</table>

**Location Name:**

**Capacity:**

**Record rated load capacity of lift:**

**Verify that the Inspection Certificate records manufacturer name & address, lift model number, serial number & certification serial number (certified lifts only) & lift rated load capacity (Nameplate Information)**

**Inspector Initials**

**Date**

**Inspection #**
<table>
<thead>
<tr>
<th>ALOIM Inspection Points - All Lifts (Appendix C, ALOIM:Current Edition) - Continued</th>
<th>Pass</th>
<th>Fail</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>5.6.2.7 Confirm adequacy of clearances around lift.</strong></td>
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<tr>
<td>- Confirm there is adequate clearances around lift to accommodate anticipated service activities and emergency egress, report deficiencies</td>
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<tr>
<td><strong>5.6.2.8 Examine all accessible structural components including welds.</strong></td>
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<tr>
<td>- Report any evidence of overloading, misuse or abuse</td>
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<td></td>
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<tr>
<td>- Report any permanent deformation or cracks</td>
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<tr>
<td><strong>5.6.2.9 Examine electrical components &amp; wiring.</strong></td>
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<tr>
<td>- Report broken or unstranded wires or cables</td>
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<tr>
<td>- Report damaged connectors, jumper wires, missing components or covers</td>
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<tr>
<td>- Verify presence of lockout/tagout provisions</td>
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<tr>
<td>- Confirm appropriate electrical component labeling</td>
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<tr>
<td>- Verify that all electrical lifts are provided with a separate, appropriately sized service</td>
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<tr>
<td>- Verify that all electrical lifts are provided with separate, appropriately sized overload protection, rated &amp; set in accordance with local code requirements</td>
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<tr>
<td><strong>5.6.2.10 Check the lift controls.</strong></td>
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<tr>
<td>- Verify lift controls are accessible &amp; provide an unobstructed view of the lift, report deficiencies</td>
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<tr>
<td>- Verify automatic return to neutral, or off, when released and report deficiencies</td>
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<tr>
<td><strong>5.6.2.11 On lifts using runways, check to ensure proper operation of all features.</strong></td>
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<tr>
<td>- Check proper operation of the automatic runway stops</td>
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<tr>
<td>- Check accessibility of manual runway chocks</td>
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<tr>
<td>- Check presence of fixed runway stops</td>
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<tr>
<td>- Check proper operation of the movable runway feature (if present)</td>
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<tr>
<td>- Check the security of the runways</td>
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<tr>
<td>- Check security of the turn tables and/or slipplates (if employed)</td>
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<tr>
<td>- Check the integrity of the anti-slip surface treatment (if used)</td>
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<tr>
<td><strong>On runway style lifts employing movable jacking or free wheel systems:</strong></td>
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<tr>
<td>- Check proper operation of the jack locating system as well as the support rails</td>
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<tr>
<td>- Verify capacity of any one rolling jack does not exceed capacity limitations set by manufacturer</td>
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<tr>
<td>- Verify if multiple jacks are used that the jacks &amp; lift are labeled &amp; instructions properly address aggregate capacity per ANSI/ALI ALC TV</td>
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<tr>
<td>- Verify minimum center to center distance of multiple jacks is not less than maximum center to center distance of runways unless covered in lift instructions</td>
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<tr>
<td>- The jack or jacks shall be separately inspected as if they were lifts</td>
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<tr>
<td>- Report any deficiencies of the above points</td>
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<tr>
<td><strong>5.6.2.12 Check telescoping stops.</strong></td>
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<tr>
<td>- Verify telescoping stops are functioning as intended</td>
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<tr>
<td>- Report improper function or excessive wear</td>
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</tbody>
</table>
### SAMPLE LIFT INSPECTION FORMS

5.6.2.13 On lifts requiring swing arm restraints, check for proper function.
- Swing arm restraints shall be inspected by manually applying force to extended arm and confirm proper engagement & resistance
- Report improper function, excessive wear or damage

5.6.2.14 Check all fastening devices for tightness including floor anchor bolts (report deficiencies).
- Check all fastening devices for tightness, torque value (if specified) & proper fit
- Check all swivel pins for excessive wear, elongation or hole deformation
- Check anchor bolts (if employed) in accordance with the recommendations of the anchor bolt manufacturer as provided by the lift manufacturer
- Check all guide rollers, bearing rollers & roller contact surfaces for wear or misalignment
- Check axles & rollers for free rotation & secure mounting

5.6.2.15 Check exposed surfaces & edges.
- Report burrs, sharp edges or excessive corrosion

5.6.2.16 Operate the lift & check the operation of the positive stop & the lift locks.
- Check the operation of the positive stop & the lift locks
- Check to see if the lift locks engage in the fully extended position
- On lifts employing continuous locking systems, check to ensure that the lift locks are operational & engage in all intended points
- Confirm proper operation of the lock release mechanisms & the lock reset devices
- Report improper function, excessive wear or damage

5.6.2.17 On lifts employing adapters, check condition & proper operation (report deficiencies).
- On lifts employing adapters that contact the vehicle frame, body or wheels, check for proper operation of the devices furnished
- Check threads, swivels & over-center stops along with surface treatments or pads
- Check adapter over-extension stops
- Check extenders/height adapters (if used) to ensure they meet manufacturers specifications
- Check extenders/height adapters (if used) that they are fully functional & properly labeled for application & capacity

5.6.2.18 With a representative vehicle on the lift, check the lowering speed.
- Check lowering speed of the lift from full rise to lift or tire touchdown
- Report lowering speed (inches divided by seconds multiplied by 5)
  
  Lowering speed shall not exceed 20 feet per minute

  Report Lowering Speed

  fpm

5.6.2.19 Check all points requiring lubrication (use manufacturer guidelines whenever possible).
- Check to ensure cleanliness & integrity of fittings & presence of lubricant
- Report points in need of lubrication & damaged or missing fittings

5.6.2.20 On lifts equipped with lateral synchronization or equalization systems, check the operation of the synchronization or equalization system.
- Check the operation of the synchronization/equalization system by running the lift through its full excursion
- Report excessive lateral misalignment of the lifting contact points, which might impair safe operation

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<td>Inspection Points - All Lifts (Appendix C, ALOIM:Current Edition) - Continued</td>
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### SAMPLE LIFT INSPECTION FORMS

#### 5.6.2.21 On lifts incorporating working platforms, railings, & stairways, check the railings & walking surfaces.
- Check to ensure the railings & toe boards are in place & in good repair
- Check that the stair treads & other walking surfaces are free of debris or excessive oil & grease
- Check anti-slip features for functionality
- Report any deficiencies of the above points

#### 5.6.2.22 On lifts incorporating overhead structures, verify the safety shutoff.
- Report improper operation of the up-over travel shutoff switch
- Shut off switches are not required for lifts that only have overhead hydraulic lines

#### 5.6.2.23 Inspect all chains & wire ropes (use manufacturer guidelines whenever possible).
- Report excessive slack (possible sign of unusual stretch or wear)
- Inspect the end connections & report excessive corrosion, fatigue, excessive wear, connection hole elongation or deformation
- Check wire ropes
  - Report deformation, kinks, unstranding or reduced diameter
  - Report excessive corrosion or contamination
  - Report broken, cut, bent or crushed wires
- Check chains
  - Report excessive wear on links, pins or side plates
  - Report deformed, bent, rusted or broken links
  - Report presence of foreign materials

#### 5.6.2.24 Check the tracking & level winding of wire ropes & chains.
- Check the tracking & level winding of wire ropes & chains upon drums & pulleys or sprockets
- Check for excessive wear on the bearing surfaces & on the edge guide surfaces
- Check for free rotation of pulleys & sprockets
- Report any deficiencies of the above points

#### 5.6.2.25 Report unguarded pinch points.
- Report unguarded pinch points & report those that are unprotected by appropriate guards or instructions

#### 5.6.2.26 Confirm single point operation of multiple powered posts.
- Check multiple powered posts to confirm operation from only one position at a time and report deficiencies

#### 5.6.2.27 Report water in sub-floor pits or enclosures.
- Report water in sub-floor pits or enclosures

#### 5.6.2.28 Check all accessories for construction & labeling.
- Check all accessories used on the lift for proper labeling to assure construction meets manufacturer specifications
- Check suitability for the application & certification for use with the specific lift

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Refer to sections 5.6.3 & 5.6.5 ALOIM:Current Edition for lifts covered under this section
### SAMPLE LIFT INSPECTION FORMS

#### 5.6.3.1 Check all accessible piping, tubing, hose, valves & fittings. Review lift oil consumption records.
- Check the plunger, piston rod or ram element glands of the hydraulic cylinders for cracks & verify the manufacturer specified torque requirements (if any)
- Report any hydraulic or air leaks
- Report oil type. Record Oil Type:
- Review lift oil consumption records

#### 5.6.3.2 Operate lift through full travel & observe.
- Operate lift through full travel & observe if lift travels smoothly while raising & lowering
- Inspect the plunger, piston rod or ram element of the hydraulic cylinder(s) & report gouges, scoring, corrosion, pitting, cracks or other blemishes
- If the lift is equipped with an air exhaust valve, report the presence of oil mist when lowering

#### 5.6.3.3 With lift loaded, stop the load at midpoint of travel & observe.
- With lift loaded, stop the load at midpoint of travel & report slow downward drift
- Check the plunger oil seal & report leakage of oil or air

#### 5.6.4.1 Record Venting Type:
- Record venting provisions type (manual or self-bleeding)

#### 5.6.4.2
- Confirm cylinder has means to vent trapped air
- Check the plunger, piston rod or ram element glands of the hydraulic cylinders for cracks & verify the manufacturer specified torque requirements (if any)
- If the lift is equipped with an air exhaust valve, report the presence of oil mist when lowering

#### 5.6.4.3 Review lift oil consumption records
- Operate lift through full travel & observe.
- Operate lift through full travel & observe if lift travels smoothly while raising & lowering

#### 5.6.4.4 Check with operator to ascertain any unusual operating characteristics.
- Check with the operator & report if lift slowly rises over night when not in use
- Check with the operator & report if there has been any problem in lifting the rated load capacity

#### 5.6.4.5 On lifts which incorporate floor/trench covers, verify the proper operation.
- Improper operation or missing covers shall be reported

#### 5.6.4.6 On air-oil lifts check for low oil control.
- Report the absence of the low oil control or shut off device
- Report absence of controlled access to air-oil tank

#### 5.6.4.7 Confirm cylinder venting provisions.
- Confirm cylinder has means to vent trapped air
- Record venting provisions type (manual or self-bleeding) Record Venting Type:

#### 5.6.4.8 Confirm rotation prevention device on single post lifts.
- Confirm presence of non-rotating device

#### 5.6.4.9 On lifts utilizing pumping units, confirm adequacy of oil level at fully raised position.
- Confirm adequacy of oil level at fully raised position
- Report pump cavitation, oil foaming or oil contamination

#### 5.6.4.10 Check integrity of tamper resistant seals on relief valves.
- Verify presence of relief valve
- Verify relief valve has means to indicate tampering
- Verify that the tamper resistant seals have not been broken or tampered with (Report broken seals or evidence of tampering)

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**Inspector Initials**

**Date**

**Inspection #**

<table>
<thead>
<tr>
<th>ALOIM</th>
<th>Mechanical lifts &amp; Hydraulically Driven Mechanical Lifts (Appendix, E, ALOIM:Current Edition)</th>
<th>Refer to sections 5.6.4 &amp; 5.6.5 ALOIM:Current Edition for lifts covered under this section</th>
<th>Pass</th>
<th>Fail</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.6.4.1</td>
<td>Check for the presence of slack suspension wire rope or slack suspension chain sensing system.</td>
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</tbody>
</table>

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SAMPLE LIFT INSPECTION FORMS

- Report absence of such system

5.6.2 Check the operation of screw drive systems. Check for proper lubrication.
  - Report excessive wear on the main load nuts by following manufacturers recommended inspection procedures
  - Check & report deficient lubrication be it either manual or automatic
  - Report excessive wear & the presence of metal filings or particles in lubricant

5.6.3 Check screw drive systems for proper operation of the follower or safety nut.
  - Check for proper operation of the follower or safety nut
  - Ensure that the electrical shutoff switch is operative (if included) or check for the presence & proper operation of any other drive nut failure warning device
  - Refer to manufacturer's recommended procedures & report any deficiencies observed

5.6.4 Run the lift through its full cycle & check for shutoff at top & bottom of travel. Check the operation of multiple screw systems.
  - Run the lift through full cycle & check for shutoff at top & bottom of travel
  - Observe the operation of the synchronization of multiple screw systems whether it be mechanical or electrical
  - Check operation of the device which provides for shutdown in the event of malfunction of any of the screw systems (see manufactures guidelines)
  - Report any deficiencies observed of the above points

5.6.5 On mobile wheel engaging lifts, check the mobility of the individual units.
  - Check the mobility of the individual units
  - Confirm the units cannot be moved when loaded

ALOIM Pneumatic Lifts (Appendix, F, ALOIM: Current Edition)
Refer to section 5.6.6 ALOIM: Current Edition for lifts covered under this section

<table>
<thead>
<tr>
<th>ALOIM</th>
<th>Pneumatic Lifts (Appendix, F, ALOIM: Current Edition)</th>
<th>Pass</th>
<th>Fail</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.6.1</td>
<td>Check all accessible piping, tubing, cylinders, air bags, bellows, hose, valves &amp; fittings for leaks.</td>
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<tr>
<td>5.6.2</td>
<td>With lift loaded, stop the load at midpoint of travel &amp; observe.</td>
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<tr>
<td>5.6.3</td>
<td>Check with operator to ascertain any unusual operating characteristics.</td>
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<tr>
<td>5.6.4</td>
<td>Confirm presence of pressure regulator in supply line.</td>
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<tr>
<td>5.6.5</td>
<td>Inspect air bag or bellows for damage.</td>
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</tbody>
</table>

Maintain this inspection form on or near the lift with the inspection certificate & other printed material or records pertaining to the lift

<table>
<thead>
<tr>
<th>Lift Inspector Signature</th>
<th>Inspection #</th>
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<tbody>
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Printed Name: ALI Inspector ID #

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