

STANDARDS PRESENTATION
TO
CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD

PROPOSED STATE STANDARD,
TITLE 8, CHAPTER 4

Amend Section 3541 to read:

§3541. Automotive Lift - Definitions.

~~(a) Automotive Lift. A hydraulic or mechanical vehicle lifting device used to raise an entire vehicle to provide accessibility for convenient under-chassis service.~~

“Automotive lift” means “automotive vehicle service lift,” and is a lifting device specifically designed to raise and provide stable support for an automotive vehicle free of the ground by engaging structural elements of the vehicle such as wheels, body, frame members, axle housings, or wheel suspension components.

~~(b) Hydraulic lift. A full hydraulic or semi-hydraulic (hydro-pneumatic) vehicle lifting device which employs one or more plungers actuated by a liquid under pressure encased in a cylinder or cylinders; plunger or plungers equipped with suitable load carrying members; the pressure being generated by compressed air, by pump or other suitable means.~~

~~(c) Full Hydraulic Lift. A vehicle lifting device of the plunger type which employs a liquid under pressure as the direct lifting and load sustaining agent. Such a lift is so designed and constructed that the full weight of the load and the lifting assembly rest on a continuous column of liquid which extends from the cylinder to the liquid control valve.~~

~~(d) Mechanical Lift. A vehicle lifting device so designed that the motive power is transmitted to the lifting frame by mechanical means. It is divided into three principal classes:~~

~~(1) cable and drum;~~

~~(2) rack and pinion; and~~

~~(3) screw.~~

~~(e) Hydro-pneumatic Lift. A semi-hydraulic vehicle lifting device of the plunger type which employs compressed air as the primary lifting and load sustaining agent; such compressed air acts continuously against a column of liquid to provide the lifting and load sustaining effort.~~

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

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Amend Section 3542 to read:

§3542. General.

(a) Automotive lifts shall be designed, constructed and installed in accordance with the provisions of ANSI B153.1-1974, or shall have been approved by the Division of Occupational Safety and Health for lifts installed prior to November 1976. In lieu of meeting the provisions of ANSI B153.1-1974, automotive lifts installed through August 17, 1994, may be designed, constructed and installed in accordance with ANSI B153.1-1981.

(b) ~~New Automotive lifts installed~~ manufactured after August 17, 1994, through [_____ * _____], shall be designed, constructed, maintained, and used installed in accordance with the provisions of ANSI/ALI B153.1-1990, which is hereby incorporated by reference, with the exception of Sections 7.2.2 and 8.2, or shall conform to the requirements of subsection (c).

(c) New automotive lifts manufactured after [_____ * _____], shall be installed in accordance with the manufacturer's instructions and meet the design provisions of ANSI/ALI ALCTV-1998, Section 8, "Construction" and Section 9.2 "Testing" requirements for automotive lifts, which are hereby incorporated by reference.

NOTE: References to Title 29, Code of Federal OSHA Regulations (CFR) contained in ANSI/ALI ALCTV – 1998, Section 8, "Construction" correspond to the italicized regulations contained in the California Code of Regulations, Title 8, General Industry Safety Orders (GISO) shown in brackets as follows:

29 CFR 1910.144 [Title 8, Sections 3340 and 3341], 29 CFR Subpart D, Walking-Working Surfaces, Sections 1910.21 – 1910.32 [Title 8, Sections 3207, 3209 – 3214, 3224, 3241, 3272, 3273, 3275, 3277 – 3279, Title 8, GISO Article 23, Mobile Ladder Stands and Scaffolds (Towers)], 29 CFR 1910.212 and .219 [Title 8, GISO Group 6, Power Transmission Equipment, Prime Movers, Machines and Machine Parts and Group 8, Points of Operation and Other Hazardous Parts of Machinery], and 29 CFR 1910.95 [Title 8, GISO, Article 105, Control of Noise Exposure].

(d) The operation, inspection and maintenance of automotive lifts shall be performed by a qualified person in accordance with procedures recommended by the manufacturer.

Maintenance shall include that pipe lines, fittings, valves, and packing glands are kept tight.

NOTE: Guidelines for the operation, inspection, maintenance, installation and servicing of automotive lifts are available in ANSI/ALI ALOIM-2000, Safety Requirements for Operation, Inspection and Maintenance; and ANSI/ALI ALIS-2001, Safety Requirements for Installation and Service.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

* Effective date of these orders to be filled in by the Office of Administrative Law.

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Amend Section 3543 to read:

§3543. Marking Required.

(a) Automotive lifts manufactured before August 17, 1994, shall be labeled with the following information:

(1) Name of the manufacturer.

(2) Either the Division approval number or statement of compliance with ANSI B153.1-1974 or ANSI B153.1-1981.

(3) Capacity.

(4) Date of installation or manufacture.

(b) Automotive lifts manufactured on or after August 17, 1994, through [_____ * _____], shall be labeled ~~or provided~~ with a statement of compliance indicating that the lift was manufactured to conform to the requirements of ANSI/ALI B153.1-1990, or may conform to the requirements of subsection (c), which is hereby incorporated by reference, except Section 8.2.

(c) Automotive lifts manufactured after [_____ * _____] shall be labeled with a statement of compliance indicating that the lift was manufactured to conform to the requirements of ANSI/ALI ALCTV-1998, Section 8, "Construction" and Section 9.2 "Testing".

~~(e)~~ (d) Labels shall be legibly stamped, etched, or embossed on a durable plate, which shall be permanently attached to the lift in a location where it can be conveniently inspected. Labels shall not be obscured, obliterated or changed.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

* Effective date of these orders to be filled in by the Office of Administrative Law.

Amend Section 3544 to read:

§3544. Control Mechanism for ~~Hydraulic~~ Automotive Lifts.

Every ~~hydraulic~~ automotive lift shall be equipped with a readily accessible direct control device which will automatically return to the neutral or "off" position upon release by the operator. Adapters or other alterations which will render the normal functions of the control device inoperative shall not be used.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

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Amend Section 3545 to read:

§3545. Oil Measurement.

- (a) Every air-oil tank and oil storage tank on automotive lift installations shall be provided with a graduated stick gage or other positive and ~~adequate~~ easily accessible means by which the oil level in the reservoir, with plunger or plungers in the lowest position, can be determined.
- (b) The oil supply in every air-oil tank and oil storage tank shall be maintained at or above the prescribed safe minimum operating level which shall in no case be less than three inches in depth or ten percent of the total oil volume when the plunger or plungers are in the ~~extreme~~ fully elevated position.
- (c) ~~The oil filling hole in the top of the plunger of every hydro-pneumatic lift shall be not less than a one-inch pipe tapped hole and there shall be a graduated stick gage available to determine the oil level which shall be maintained at or above the prescribed safe minimum operating level. The~~ Where a fill or gage hole is provided to measure oil levels, the fill or gage hole shall not be obstructed in any manner which that would require removal of any parts of the lift except the pipe fill or gage hole cover or plug to check the oil level.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

Amend Section 3546 to read:

§3546. Air, Oil Tank ~~Construction and Installation~~ Working Pressure and Corrosion Protection.

- (a) Every oil tank used for liquid storage under pressure, not an integral part of the cylinder assembly, shall be constructed for a working pressure of not less than 200 pounds per square inch, in accordance with the provisions of the ASME Code for Pressure Vessels, as required by the Unfired Pressure Vessel Safety Orders of the Division.
- (b) Every air, oil storage or surge tank which is to be completely buried in earth or concrete shall ~~first be covered or coated~~ protected from with a corrosion with an effective corrosion resistant coating which may be alternate layers of asphalt and burlap to a thickness of three-sixteenths of an inch, or a three-sixteenths of an inch coating of rubberized underseal or some other equally effective corrosion resistant coating, or equivalent method of protection.
- (c) ~~The top of buried tanks shall be not less than two feet below the top of the ground.~~

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

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(No Amendments to this Section – Provided for information only)

§3547. Working Area Under Lifts.

(a) No slots or abrupt recesses in excess of 2 1/4 inches in width (unless closable by integral hinged flat covers) or raised floor obstructions for receiving the lift frame and rails shall be permitted in the floor under the lift.

NOTE: The floor may be recessed to receive the rails providing the slope into the lowest part of the recess does not exceed 1 inch in 4 inches and provided also the inclined surfaces are constructed and surfaced so as to reduce slipping hazards.

(b) Floor surfaces under the lift shall be kept reasonably free of oil or grease to minimize the slipping hazards.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

Amend Section 3548 to read:

§3548. Chassis and Axle Supports.

(a) Chassis and axle supports shall be of such design as to safely transfer the load to the automotive lift rails without introducing torsion stresses in the rails.

(b) ~~No makeshift devices~~ Devices shall be used for chassis, frame, wheel or and axle supports shall be approved.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.

Amend Section 3549 to read:

§3549. ~~Maintenance.~~ Descent Speed.

~~(a) Pipe lines, fittings, valves, and packing glands shall be kept tight.~~

~~(b)~~ All elements of any lift which control the speed of descent shall be ~~so~~ maintained so that the average such speed will not exceed 20 feet per minute.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Section 142.3, Labor Code.