



ANNUAL VEHICLE INSPECTION REPORT

Date: _____

Fleet Unit Number: _____

COMPANY NAME	INSPECTORS NAME (PRINT & SIGN)
ADDRESS	THIS INSPECTOR MEETS THE QUALIFICATION REQUIREMENTS IN SECTION 396.19
CITY, STATE, ZIP CODE	VEHICLE IDENTIFICATION (<input checked="" type="checkbox"/> AND COMPLETE)
VEHICLE TYPE <input type="checkbox"/> Tractor <input type="checkbox"/> Trailer <input type="checkbox"/> Truck <input type="checkbox"/> Pickup <input type="checkbox"/> Other	INSPECTION LOCATION, NAME, LOCATION #

VEHICLE COMPONENTS INSPECTED

N/A	OK	Needs Repair	Repaired	Date	Item	N/A	OK	Needs Repair	Repaired	Date	Item	N/A	OK	Needs Repair	Repaired	Date	Item
1. BRAKE SYSTEM						6. SAFE LOADING						11. WHEELS AND RIMS					
					a. Service Brakes						a. Part(s) of vehicle or condition of lading such that the spare tire or any part of the load dunnage can fall onto the roadway						a. Lock or Side Ring
					b. Parking Brake System						b. Protection against shifting cargo (TRL)						b. Wheels and Rims
					c. Brake Drums or Rotors						c. Container securement devices on intermodal equipment (TRL)						c. Fasteners
					d. Brake Hose												d. Welds
					e. Brake Tubing						12. WINDSHIELD AND GLAZING						
					f. Low Pressure Warning Device						Requirements and exceptions as stated pertaining to any crack, discoloration or vision reducing matter (reference 393.60 for exceptions) tint ≥ A line						
					g. Tractor Protection Valve	7. STEERING MECHANISM											
					h. Air Compressor						a. Steering Wheel Free Play						
					i. Electric Brakes						b. Steering Column						
					j. Hydraulic Brakes						c. Front Axle Beam and All Steering Components Other Than Steering Column						13. WINDSHIELD WIPERS
					k. Vacuum Systems						d. Steering Gear Box						Any power unit that has an inoperative wiper, or missing or damaged parts that render it ineffective
2. COUPLING DEVICES											e. Pitman Arm	14. SAFETY DEVICES					
					a. Fifth Wheels						f. Power Steering						a. Signaling Devices / Triangular Reflectors or flares
					b. Pintle Hooks						g. Ball and Socket Joints						b. Fire Extinguisher (Secured and Current)
					c. Drawbar/Towbar Eye						h. Tie Roads and Drag Links	15. OTHER					
					d. Drawbar/Towbar Tongue						i. Nuts						List any other condition(s) which may prevent safe operation of this vehicle
					e. Safety Devices						j. Steering System						
					f. Saddle-Mounts	8. SUSPENSION											
3. EXHAUST SYSTEMS											a. Any U-bolt(s), spring hanger(s), or other axle positioning part(s) cracked, broken, loose or missing resulting in shifting of an axle from its normal position						
					a. Exhaust system leaking forward of or directly below the driver/sleeper compartment						b. Spring Assembly						
					b. Exhaust system likely to burn, char, or damage the electrical wiring, fuel supply, or any combustible part of the motor vehicle						c. Torque, Radius or Tracking Components						
4. FUEL SYSTEM						9. FRAME											
					a. Visible Leak						a. Frame Members						
					b. Fuel tank filler cap missing						b. Tire and Wheel Clearance						
					c. Fuel tank securely attached						c. Adjustable Axle Assemblies (Sliding Subframes)						
5. LIGHTING DEVICES						10. TIRES						Certification: This vehicle has passed all the inspection items for the annual vehicle inspection in accordance with 49 CFR Part 396.					
					All lighting devices and reflectors required by Part 393 shall be operable						a. Tires on any steering axle of a power unit						
											b. All other tires						

ORIGINAL

TO BE PUT IN VEHICLE GLOVEBOX

A vehicle does not pass an inspection if it has one of the following defects or deficiencies:

1. *Brake System*

a. *Service Brakes.*

- (1) Absence of braking action on any axle required to have brakes upon application of the service brakes (such as missing brakes or brake shoe(s) failing to move upon application of a wedge, S-cam, cam, or disc brake).
- (2) Missing or broken mechanical components including: shoes, lining pads, springs, anchor pins, spiders, cam rollers, push rods, and air chamber mounting bolts.
- (3) Loose brake components including air chambers, spiders, and cam shaft support brackets.
- (4) Audible air leak at brake chamber (Example ruptured diaphragm, loose chamber clamp, etc.).
- (5) Readjustment limits. The maximum stroke at which brakes should be readjusted is given below. Any brake 1/4", or more past the readjustment limit or any two brakes less than 1/4", beyond the readjustment limit shall be cause for rejection. Stroke shall be measured with engine off and reservoir pressure of 80 to 90 psi with brakes fully applied.

BOLT TYPE BRAKE CHAMBER DATA

Type	Effective area (sq. in.)	Outside dia. (in.)	Maximum stroke at which brakes should be readjusted
A	12	6 15/16	1 3/8
B	24	9 3/16	1 3/4
C	16	8 1/16	1 3/4
D	6	5 1/4	1 1/4
E	9	6 3/16	1 3/8
F	36	11	2 1/4
G	30	9 7/8	2

ROTO CHAMBER DATA

Type	Effective area (sq. in.)	Outside dia. (in.)	Maximum stroke at which brakes should be readjusted
9	9	4 9/32	1 1/2
12	12	4 13/16	1 1/2
16	16	5 13/32	2
20	20	5 15/16	2
24	24	6 13/32	2
30	30	7 1/16	2 1/4
36	36	7 5/8	2 1/4
50	50	8 7/8	3

CLAMP TYPE BRAKE CHAMBER DATA

Type	Effective area (sq. in.)	Outside dia. (in.)	Maximum stroke at which brakes should be readjusted
6	6	4 1/2	1 1/4
9	9	5 1/4	1 3/8
12	12	5 11/16	1 3/8
16	16	6 3/8	1 3/4
20	20	6 25/32	1 3/4
24	24	7 7/32	1 3/4
30	30	8 3/32	2
36	36	9	2 1/4

1(2" for long stroke design).

WEDGE BRAKE DATA. —Movement of the scribe mark on the lining shall not exceed 1/16 inch.

(6) *Brake linings or pads.*

- (a) Lining or pad is not firmly attached to the shoe;
- (b) Saturated with oil, grease, or brake fluid; or
- (c) Non steering axles: Lining with a thickness less than 1/4 inch at the shoe center for air drum brakes, 1/16 inch or less at the shoe center for hydraulic and electric drum brakes, and less than 1/8 inch for air disc brakes.
- (d) Steering axles: Lining with a thickness less than 1/4 inch at the shoe center for drum brakes, less than 1/8 inch for air disc brakes and 1/16 inch or less for hydraulic disc and electric brakes.

(7) *Missing brake on any axle required to have brakes.*

(8) *Mismatch across any power unit steering axle of:*

- (a) Air chamber sizes.
- (b) Slack adjuster length.

b. *Parking Brake System.* No brakes on the vehicle or combination are applied upon actuation of the parking brake control, including driveline hand controlled parking brakes.

c. *Brake Drum or Rotors.*

- (1) With any external crack or cracks that open upon brake application (do not confuse short hairline heat check cracks with flexural cracks).
- (2) Any portion of the drum or rotor missing or in danger of falling away.

d. *Brake Hose.*

- (1) Hose with any damage extending through the outer reinforcement ply. (Rubber impregnated fabric cover is not a reinforcement ply). (Thermoplastic nylon may have braid reinforcement or color difference between cover and inner tube. Exposure of second color is cause for rejection).

- (2) Bulge or swelling when air pressure is applied.
- (3) Any audible leaks.
- (4) Two hoses improperly joined (such as a splice made by sliding the hose ends over a piece of tubing and clamping the hose to the tube).
- (5) Air hose cracked, broken or crimped.
- e. *Brake Tubing*
- (1) Any audible leak.
- (2) Tubing cracked, damaged by heat, broken or crimped
- f. *Low Pressure Warning Device* missing, inoperative, or does not operate at 55 psi and below, or 1/2 the governor cut out pressure, whichever is less.
- g. *Tractor Protection Valve*. Inoperative or missing tractor protection valve(s) on power unit.
- h. *Air Compressor*.
- (1) Compressor drive belts in condition of impending or probable failure.
- (2) Loose compressor mounting bolts.
- (3) Cracked, broken or loose pulley.
- (4) Cracked or broken mounting brackets, braces or adapters.
- i. *Electric Brakes*.
- (1) Absence of braking action on any wheel required to have brakes.
- (2) Missing or inoperative breakaway braking device.
- j. *Hydraulic Brakes. (Including Power Assist Over Hydraulic and Engine Drive Hydraulic Booster)*.
- (1) Master cylinder less than 1/4 full.
- (2) No pedal reserve with engine running except by pumping pedal.
- (3) Power assist unit fails to operate.
- (4) Seeping or swelling brake hose(s) under application of pressure.
- (5) Missing or inoperative check valve.
- (6) Has any visually observed leaking hydraulic fluid in the brake system.
- (7) Has hydraulic hose(s) abraded (chafed) through outer cover-to-fabric layer.
- (8) Fluid lines or connections leaking restricted, crimped, cracked or broken.
- (9) Brake failure or low fluid warning light on and/or inoperative.
- k. *Vacuum Systems*. Any vacuum system which:
- (1) Has insufficient vacuum reserve to permit one full brake application after engine is shut off.
- (2) Has vacuum hose(s) or line(s) restricted, abraded (chafed) through outer cover to cord ply, crimped, cracked, broken or has collapse of vacuum hose(s) when vacuum is applied.
- (3) Lacks an operative low vacuum warning device as required.
- 2. *Coupling Devices*.
- a. *Fifth Wheels*.
- (1) Mounting to frame.
- (a) Any fasteners missing or ineffective.
- (b) Any movement between mounting components.
- (c) Any mounting angle iron cracked or broken.
- (2) Mounting plates and pivot brackets.
- (a) Any fasteners missing or ineffective.
- (b) Any welds or parent metal cracked.
- (c) More than 3/8 inch horizontal movement between pivot bracket pin and bracket.
- (d) Pivot bracket pin missing or not secured.
- (3) Sliders.
- (a) Any latching fasteners missing or ineffective.
- (b) Any fore or aft stop missing or not securely attached.
- (c) Movement more than 3/8 inch between slider bracket and slider base.
- (d) Any slider component cracked in parent metal or weld.
- (4) Lower coupler.
- (a) Horizontal movement between the upper and lower fifth wheel halves exceeds 1/2 inch.
- (b) Operating handle not in closed or locked position.
- (c) Kingpin not properly engaged.
- (d) Separation between upper and lower coupler allowing light to show through from side to side.
- (e) Cracks in the fifth wheel plate.
- Exceptions: Cracks in fifth wheel approach ramps and casting shrinkage cracks in the ribs of the body of a cast fifth wheel.*
- (f) Locking mechanism parts missing, broken, or deformed to the extent the kingpin is not securely held.
- b. *Pintle Hooks*.
- (1) Mounting to frame.
- (a) Any missing or ineffective fasteners (a fastener is not considered missing if there is an empty hole in the device but no corresponding hole in the frame or vice versa).
- (b) Mounting surface cracks extending from point of attachment (e.g., cracks in the frame at mounting bolt holes).
- (c) Loose mounting.
- (d) Frame crossmember providing pintle hook attachment cracked.
- (2) Integrity.
- (a) Cracks anywhere in pintle hook assembly.
- (b) Any welded repairs to the pintle hook.
- (c) Any part of the horn section reduced by more than 20%.
- (d) Latch insecure.
- c. *Drawbar/Towbar Eye*.
- (1) Mounting.
- (a) Any cracks in attachment welds.
- (b) Any missing or ineffective fasteners.
- (2) Integrity.
- (a) Any cracks.
- (b) Any part of the eye reduced by more than 20%.
- d. *Drawbar/Towbar Tongue*.

- (1) Slider (power or manual).
- (a) Ineffective latching mechanism.
- (b) Missing or ineffective stop.
- (c) Movement of more than 1/4 inch between slider and housing.
- (d) Any leaking, air or hydraulic cylinders, hoses, or chambers (other than slight oil weeping normal with hydraulic seals).
- (2) Integrity.
- (a) Any cracks.
- (b) Movement of 1/4 inch between subframe and drawbar at point of attachment.
- e. *Safety Devices.*
- (1) Safety devices missing.
- (2) Unattached or incapable of secure attachment.
- (3) Chains and hooks.
- (a) Worn to the extent of a measurable reduction in link cross section.
- (b) Improper repairs including welding, wire, small bolts, rope and tape.
- (4) Cable.
- (a) Kinked or broken cable strands.
- (b) Improper clamps or clamping.
- f. *Saddle Mounts.*
- (1) Method of attachment.
- (a) Any missing or ineffective fasteners.
- (b) Loose mountings.
- (c) Any cracks or breaks in a stress or load bearing member.
- (d) Horizontal movement between upper and lower saddle mount halves exceeds 1/4 inch.
3. *Exhaust System.*
- a. Any exhaust system determined to be leaking at a point forward of or directly below the driver/sleeper compartment.
- b. A bus exhaust system leaking or discharging to the atmosphere:
 - (1) Gasoline powered — excess of 6 inches forward of the rearmost part of the bus.
 - (2) Other than gasoline powered — in excess of 15 inches forward of the rearmost part of the bus.
 - (3) Other than gasoline powered — forward of a door or window designed to be opened. (Exception: emergency exits).
- c. No part of the exhaust system of any motor vehicle shall be so located as would be likely to result in burning, charring, or damaging the electrical wiring, the fuel supply, or any combustible part of the motor vehicle.
4. *Fuel System.*
- a. A fuel system with a visible leak at any point.
- b. A fuel tank filler cap missing.
- c. A fuel tank not securely attached to the motor vehicle by reason of loose, broken or missing mounting bolts or brackets (some fuel tanks use springs or rubber bushings to permit movement).
5. *Lighting Devices.*
- All lighting devices and reflectors required by Section 393 shall be operable.
6. *Safe loading.*
- a. Part(s) of vehicle or condition of loading such that the spare tire or any part of the load or dunnage can fall onto the roadway.
- b. Protection Against Shifting Cargo —Any vehicle without a front end structure or equivalent device as required.
7. *Steering Mechanism.*
- a. *Steering Wheel Free Play* (on vehicles equipped with power steering the engine must be running)

STEERING WHEEL FREE PLAY

Steering Manual Power

wheel diameter	steering system	steering system
16"	2"	4 1/2"
18"	2 1/4"	4 3/4"
20"	2 1/2"	5 1/4"
22"	2 3/4"	5 3/4"

- b. *Steering Column.*
- (1) Any absence or looseness of U-bolt(s) or positioning part(s).
- (2) Worn, faulty or obviously repair welded universal joint(s).
- (3) Steering wheel not properly secured.
- c. *Front Axle Beam and All Steering Components Other Than Steering Column.*
- (1) Any crack(s).
- (2) Any obvious welded repair(s).
- d. *Steering Gear Box.*
- (1) Any mounting bolt(s) loose or missing.
- (2) Any crack(s) in gear box or mounting brackets.
- e. *Pitman Arm.* Any looseness of the pitman arm on the steering gear output shaft.
- f. *Power Steering.* Auxiliary power assist cylinder loose.
- g. *Ball and Socket Joints.*
- (1) Any movement under steering load of a stud nut.
- (2) Any motion, other than rotational, between any linkage member and it's attachment point of more than 1/4 inch.
- h. *Tie Rods and Drag Links.*
- (1) Loose clamp(s) or clamp bolt(s) on tie rods or drag links.
- (2) Any looseness in any threaded joint.
- i. *Nuts.* Nut(s) loose or missing on tie rods pitman arm, drag link, steering arm or tie rod arm.
- j. *Steering System.* Any modification or other condition that interferes with free movement of any steering component.
8. *Suspension.*
- a. Any U-bolt(s), spring hanger(s), or other axle positioning part(s) cracked, broken, loose or missing resulting in shifting of an axle from its normal position. (After a turn, lateral axle displacement is normal with some suspensions. Forward or rearward operation in a straight line will cause the axle to return to alignment).

b. *Spring Assembly.*

- (1) Any leaves in a leaf spring assembly broken or missing.
- (2) Any broken main leaf in a leaf spring assembly. (Includes assembly with more than one main spring).
- (3) Coil spring broken.
- (4) Rubber spring missing.
- (5) One or more leaves displaced in a manner that could result in contact with a tire, rim, brake drum or frame.
- (6) Broken torsion bar spring in a torsion bar suspension.
- (7) Deflated air suspension, i.e., system failure, leak, etc.

c. *Torque, Radius or Tracking Components.*

Any part of a torque, radius or tracking component assembly or any part used for attaching the same to the vehicle frame or axle that is cracked, loose, broken or missing. (Does not apply to loose bushings in torque or track rods.)

9. *Frame*

a. *Frame Members.*

- (1) Any cracked, broken, loose, or sagging frame member.
- (2) Any loose or missing fasteners including fasteners attaching functional component such as engine, transmission, steering gear, suspension, body parts, and fifth wheel.

b. *Tire and Wheel Clearance.* Any condition, including loading, that causes the body or frame to be in contact with a tire or any part of the wheel assemblies

c. (1) *Adjustable Axle Assemblies (Sliding Subframes).* Adjustable axle assembly with locking pins missing or not engaged.

10. *Tires.*

a. Any tire on any steering axle of a power unit.

- (1) With less than 4/32 inch tread when measured at any point on a major tread groove.
- (2) Has body ply or belt material exposed through the tread or sidewall.
- (3) Has any tread or sidewall separation.
- (4) Has a cut where the ply or belt material is exposed.
- (5) Labeled "Not for Highway Use" or displaying other marking which would exclude use on steering axle.
- (6) A tube-type radial tire without radial tube stem markings. These markings include a red band around the tube stem, the word "radial" embossed in metal stems, or the word "radial" molded in rubber stems.
- (7) Mixing bias and radial tires on the same axle.
- (8) Tire flap protrudes through valve slot in rim and touches stem.
- (9) Regrooved tire except motor vehicles used solely in urban or suburban service (see exception in [§393.75\(e\)](#)).
- (10) Boot, blowout patch or other ply repair.
- (11) Weight carried exceeds tire load limit. This includes overloaded tire resulting from low air pressure.
- (12) Tire is flat or has noticeable (e.g., can be heard or felt) leak.
- (13) Any bus equipped with recapped or retreaded tire(s).
- (14) So mounted or inflated that it comes in contact with any part of the vehicle.

b. All tires other than those found on the steering axle of a power unit:

- (1) Weight carried exceeds tire load limit. This includes overloaded tire resulting from low air pressure.
- (2) Tire is flat or has noticeable (e.g., can be heard or felt) leak.
- (3) Has body ply or belt material exposed through the tread or sidewall.
- (4) Has any tread or sidewall separation.
- (5) Has a cut where ply or belt material is exposed.
- (6) So mounted or inflated that it comes in contact with any part of the vehicle. (This includes a tire that contacts its mate.)
- (7) Is marked "Not for highway use" or otherwise marked and having like meaning.
- (8) With less than 2/32 inch tread when measured at any point on a major tread groove.

11. *Wheels and Rims.*

a. *Lock or Side Ring.* Bent, broken, cracked, improperly seated, sprung or mismatched ring(s).

b. *Wheels and Rims.* Cracked or broken or has elongated bolt holes.

c. *Fasteners (both spoke and disc wheels).* Any loose, missing, broken, cracked, stripped or otherwise ineffective fasteners.

d. *Welds.*

- (1) Any cracks in welds attaching disc wheel disc to rim.
- (2) Any crack in welds attaching tubeless demountable rim to adapter.
- (3) Any welded repair on aluminum wheel(s) on a steering axle.
- (4) Any welded repair other than disc to rim attachment on steel disc wheel(s) mounted on the steering axle.

12. *Windshield Glazing.*

(Not including a 2 inch border at the top, a 1 inch border at each side and the area below the topmost portion of the steering wheel.) Any crack, discoloration or vision reducing matter except: (1) coloring or tinting applied at time of manufacture; (2) any crack not over 1/4 inch wide, if not intersected by any other crack; (3) any damaged area not more than 3/4 inch in diameter, if not closer than 3 inches to any other such damaged area; (4) labels, stickers, decalomania, etc. (see [§393.60](#) for exceptions).

13. *Windshield Wipers.*

Any power unit that has an inoperative wiper, or missing or damaged parts that render it ineffective.

Comparison of Appendix G, and the new

North American Uniform Driver Vehicle Inspection Procedure (North American Commercial Vehicle Critical Safety Inspection Items and Out Of Service Criteria)

The vehicle portion of the FMCSA's North American Uniform Driver-Vehicle Inspection Procedure (NAUD-VIP) requirements, CVSA's North American Commercial Vehicle Critical Safety Inspection Items and Out-Of-Service Criteria and Appendix G of subchapter B are similar documents and follow the same inspection procedures. The same items are required to be inspected by each document. FMCSA's and CVSA's out-of-service criteria are intended to be used in random roadside inspections to identify critical vehicle inspection items and provide criteria for placing a vehicle(s) out-of-service. A vehicle(s) is placed out-of-service only when by reason of its mechanical condition or loading it is determined to be so imminently hazardous as to likely cause an accident or breakdown, or when such condition(s) would likely contribute to loss of control of the vehicle(s) by the driver. A certain amount of flexibility is given to the inspecting official whether to place the vehicle out-of-service at the inspection site or if it would be less hazardous to allow the vehicle to proceed to a repair facility for repair. The distance to the repair facility must not exceed 25 miles. The roadside type of inspection, however, does not necessarily mean that a vehicle has to be defect free in order to continue in service.

In contrast, the Appendix G inspection procedure requires that all items required to be inspected are in proper adjustment, are not defective and function properly prior to the vehicle being placed in service.

Differences Between the Out Of Service Criteria & FMCSA's Annual Inspection

1. *Brake System.*

The Appendix G criteria rejects vehicles with any defective brakes, any air leaks, etc. The out-of-service criteria allows 20% defective brakes on non

steering axles and a certain latitude on air leaks before placing a vehicle out-of-service.

2. Coupling Devices.

Appendix G rejects vehicles with any fifth wheel mounting fastener missing or ineffective. The out of service criteria allows up to 20% missing or ineffective fasteners on frame mountings and pivot bracket mountings and 25% on sliderlatching fasteners. The out of service criteria also allows some latitude on cracked welds.

3. Exhaust System.

Appendix G follows Section [§393.83](#) verbatim. The CVSA out of service criteria allows vehicles to exhaust forward of the dimensions given in Section [§393.83](#) as long as the exhaust does not leak or exhaust under the chassis.

4. Fuel System.

Same for Appendix G and the out-of-service criteria.

5. Lighting Devices.

Appendix G requires all lighting devices required by section [393](#) to be operative at all times. The out-of-service criteria only requires one stop light and functioning turn signals on the rear most vehicle of a combination vehicle to be operative at all times. In addition one operative head lamp and tail lamp are required during the hours of darkness.

6. Safe Loading.

Same for both Appendix G and the out-of-service criteria.

7. Steering Mechanism.

Steering lash requirements of Appendix G follows the new requirements of [§393.209](#).

8. Suspension.

Appendix G follows the new requirements of [§393.207](#) which does not allow any broken leaves in a leaf spring assembly. The out-of-service criteria allows up to 25% broken or missing leaves before being placed out-of-service.

9. Frame.

The out of service criteria allows a certain latitude in frame cracks before placing a vehicle out-of-service. Appendix G follows the new requirements of [§393.201](#) which does not allow any frame cracks.

10. Tires.

Appendix G follows the requirements of [§393.75](#) which requires a tire tread depth of 4/32 inch on power unit steering axles and 2/32 inch on all other axles. The out-of-service criteria only requires 2/32 inch tire tread depth on power unit steering axles and 1/32 inch on all other axles.

11. Wheel and Rims.

The out-of-service criteria allows a certain amount latitude for wheel and rim cracks and missing or defective fasteners. Appendix G meets the requirements of the new [§393.205](#) which does not allow defective wheels and rims non effective nuts and bolts.

12. Windshield Glazing.

The out-of-service criteria places in a restricted service condition any vehicle that has a crack or discoloration in the windshield area lying within the sweep of the wiper on the drivers side and does not address the remaining area of the windshield. Appendix G addresses requirements for the whole windshield as specified in [§393.60](#).

13. Windshield Wipers.

Appendix G requires windshield wipers to be operative at all times. The out-of-service criteria only requires that the windshield wiper on the driver's side to be inspected during inclement weather.