



MC 306/DOT 406 CHECKLIST/INSPECTION REPORT FOR
EXTERNAL VISUAL INSPECTION (Page 1 of 3)

4629 S. Leroy Ave.; Springfield, MO 65810
Phone: (417) 300-5205 Fax: (866) 608-4482
Providing Engineering Services for Cargo Tank Trailers,
ASME Pressure Vessels, Intermodal Tanks, and UN Portal Tanks

CARRIER/OWNER _____ DATE: _____

FLEET # _____ SERIAL/VIN # _____ C.T. MFG _____

DOT SPEC. NO. _____ MATL. _____ DATE MFG. _____

MAWP _____ psi TEST PRESSURE: _____ psi MINIMUM THICKNESS: _____ SHELL _____ HEADS _____

COMPARTMENT SIZES, F to R 1 _____ 2 _____ 3 _____ 4 _____ 5 _____

TOTAL CAPACITY: _____ Gallons DBL. BULKHEADS? _____ INSULATED? _____ LINED? _____

TYPE SERVICE: _____ CORROSIVE TO SHELL? _____ DEDICATED SERVICE? _____

PRODUCT(s) _____

DOT mandatory items indicated with "*" on checklist.

Item No.	Activity	Complies	Repairs Needed	See Remarks
1	Data plate: Attachment to tank, entries legible, no paint, corrosion	_____	_____	_____
2*	Shell and heads: Condition of welds, dents, gouges, corrosion or abrasion, possible need for thickness testing. Obvious structural defects in shell, frames, outriggers, X-Members or welds.	_____	_____	_____
3	Double head voids: If present, verify bottom vent open, no accumulated product in void.	_____	_____	_____
4*	Upper coupler assembly: Condition of plate, corrosion, deformation, lubrication, bolt tightness, king pin wear or deformation.	_____	_____	_____
5	Landing gear: Corrosion or rust, condition of welds, frame distortion above gear, bolt tightness, support braces secure, gear operation.	_____	_____	_____
6	Placard holders: Attachment to tank, condition of clips and hinges.	_____	_____	_____
7*	Bolted attachments: Under carriage, landing gear structure, cabinets, ladders, fenders, rear bumper or other important attachments.	_____	_____	_____
8	Hose tubes, troughs, or racks: Condition of tube, end covers and latches,	_____	_____	_____
9*	Piping, valves and gaskets: Check security of hangers, bolted connections and gaskets, operation of valves, adapters and caps. Assure brake interlock bars are securely mounted and function as designed.	_____	_____	_____
10*	Internal, self, closing, stop valve operations: System must have three means of closure, normal, remote (or emergency trip) and fusible. Verify proper function of valve and trip. Check cable or air operating system: Cable, adjustment, condition and lubrication of cables and tubing system and presence of fusible devices, often located in E.V. operator. Air system, check function and leak integrity of air operating system including remote trip, presence of fusible device, function of any associated brake interlock.	_____	_____	_____



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<u>Item No.</u>	<u>Activity</u>	<u>Complies</u>	<u>Repairs Needed</u>	<u>See Remarks</u>
11	Overfill sensors: Leak and moisture integrity, installation tightness, condition of electrical connections.	_____	_____	_____
12	Ladders, vertical rails straight and structurally sound. Rungs, clear of obstructions and secure to verticals. Mounting to tank structure sound.	_____	_____	_____
13	Walkways: level, well mounted and walking surface clean and slip resistant. note particularly condition of paint on non-slip coatings.	_____	_____	_____
14	Vapor Recovery System: Condition of flexible components, integrity of connections, condition of vapor return line, adapter and dust cap.	_____	_____	_____
15	Static Grounding Connections: Present and tight, including condition and connection of internal grounding cables.	_____	_____	_____
16	Gauging Devices: Security of marker, rod, braces and supports.	_____	_____	_____
17*	Manhole Assemblies, Evidence of leakage, impact damage to cover or fill covers, condition of collar and fill cover gaskets and sealing surfaces, clamping ring and other attaching hardware.	_____	_____	_____
18*	Pressure Relief Devices: Verify presence and condition of normal and emergency vent for each compartment, verify correct amount of vent capacity for size of vessel.	_____	_____	_____
19	Caution and Safety Labels: Check condition and presence of all labels, replace as necessary.	_____	_____	_____
20	Supply "Emergency Shutoff" decal near internal valve remote closure device per Paragraph 172.328 (d) after October 3, 2004.	_____	_____	_____
21*	Tank Markings: Date (month & year) and service symbol (V) if cargo tank is qualified to return to service.	_____	_____	_____
22	Rear bumper: check for damage and appearance to meet Specifications.	_____	_____	_____

Note: If, in the unusual event, the cargo tank being inspected, is fabricated with a steel shell and steel external rings, thickness test the rings as instructed on following page.



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REMARKS (use additional sheets if necessary)

Ring thickness test, when required: Measure ring thickness in four symmetrical positions around the circumference.
If any reading varies from the average, by more than 10%, thickness test shell internally, in area, covered by the ring.

Meets minimum thickness? _____ Does not comply? _____ [Refer To Part-180 407 (d)(4)]

Defects found and corrected:

Disposition of unit: Return to Service _____ Removed From Service _____

Inspector or CT Facility:

Cargo Tank Owner or Representative:

Name: _____

Name: _____

Address: _____

Address: _____

Signed: _____

Signed: _____

Date: _____

Date: _____

DOT CT # _____

DOT CT # _____

IMPORTANT: Certification of the annual External Visual Inspection must be signed by both the Inspection Agency/CT.
Facility, and the cargo tank owner, and must be retained in the owner's cargo tank file throughout his ownership and one year thereafter.