



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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|-----------------|--|-----------------|-----------------------|--------------------|
| 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)

Five horizontal lines for entering remarks.

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:

Five horizontal lines for listing 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.