







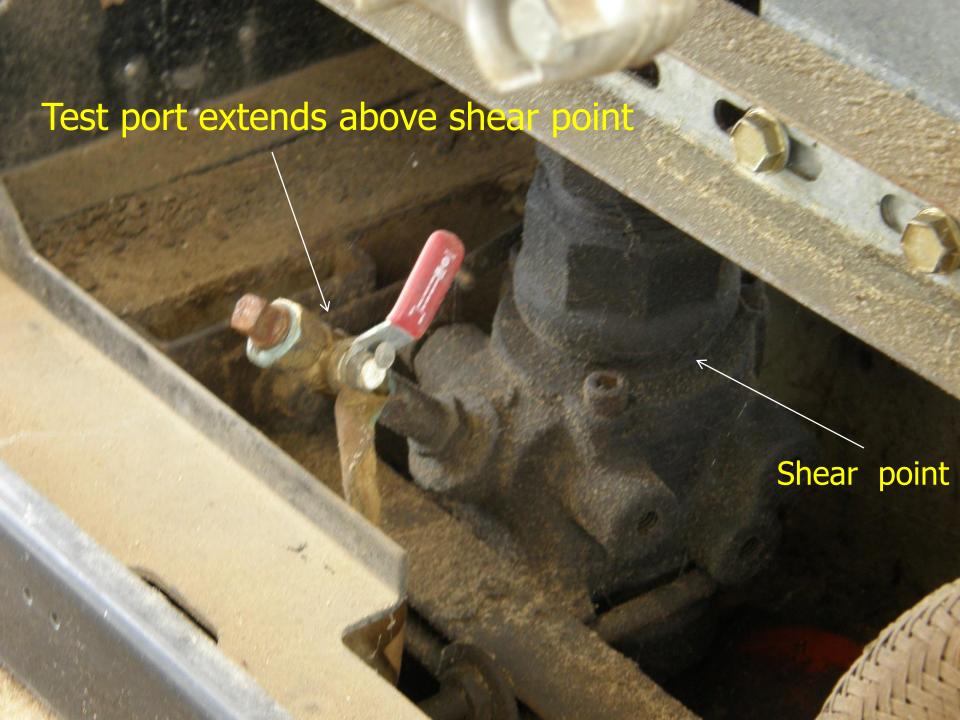
We are not just about tanks

Dispenser Inspection

- Fire/Impact valves (Anchors & Height)
- Swing Joints (Piping & Flex Connectors)
- Electrical components (Seals & conduit)
- Audit trails (Blend Ratios & Calibration)
- Leaks
- Presence of possible skimming devices
- Pre-pay nozzles
- Hose break away devices
- Proper filters (micron size)

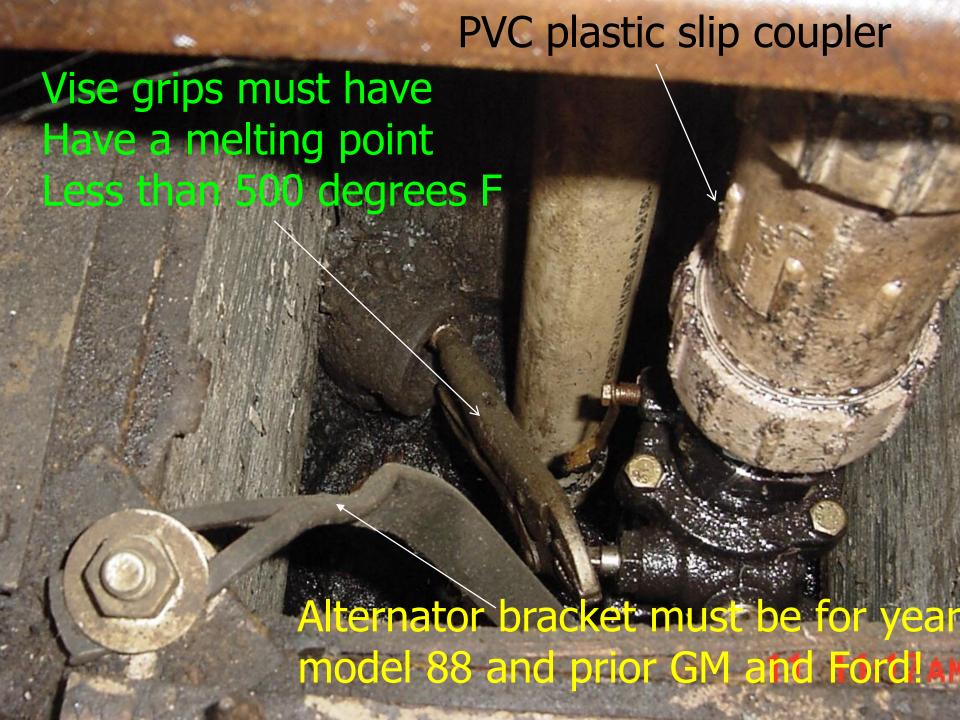












Flex Connectors

- The majority of piping failures are related to flex connectors.
- Bend radius is one of the most important factors.
- Two types of flex connectors commonly used in dispensers.
- UL listed underground
- UL listed aboveground



DO NOT PUT WRENCHES ON HOSE:

Wrenches must only be used on the hex of the fitting.

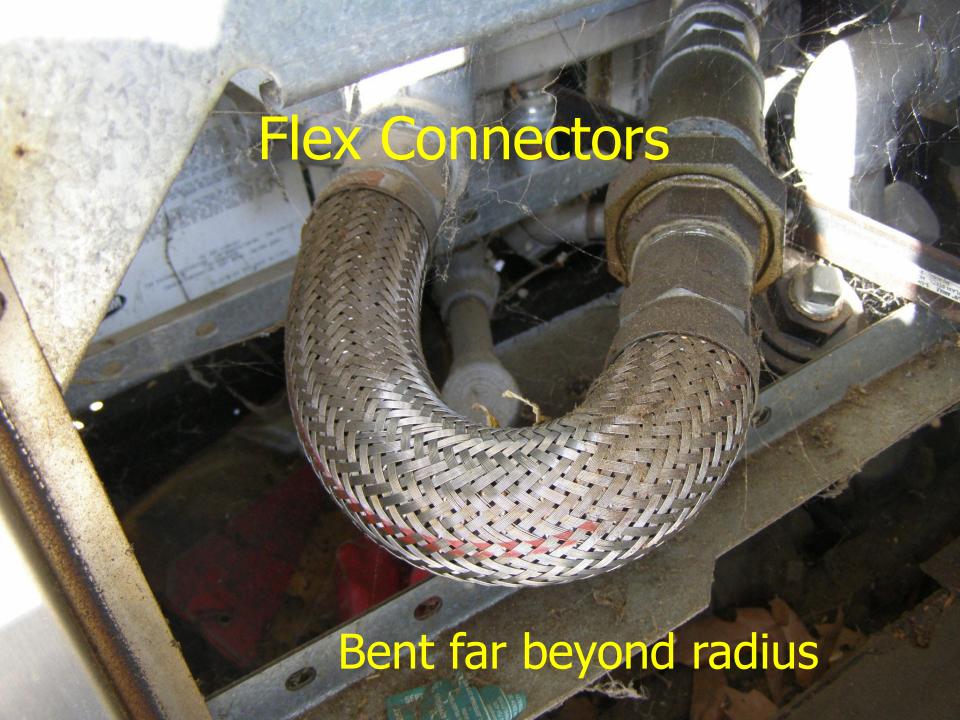
DO NOT OVERBEND THE CONNECTOR:

The installed radius of the connector must be larger than the minimum bend radius defined in the table below.

DO NOT ABUSE COMPACTOR:

ig the service contact with other

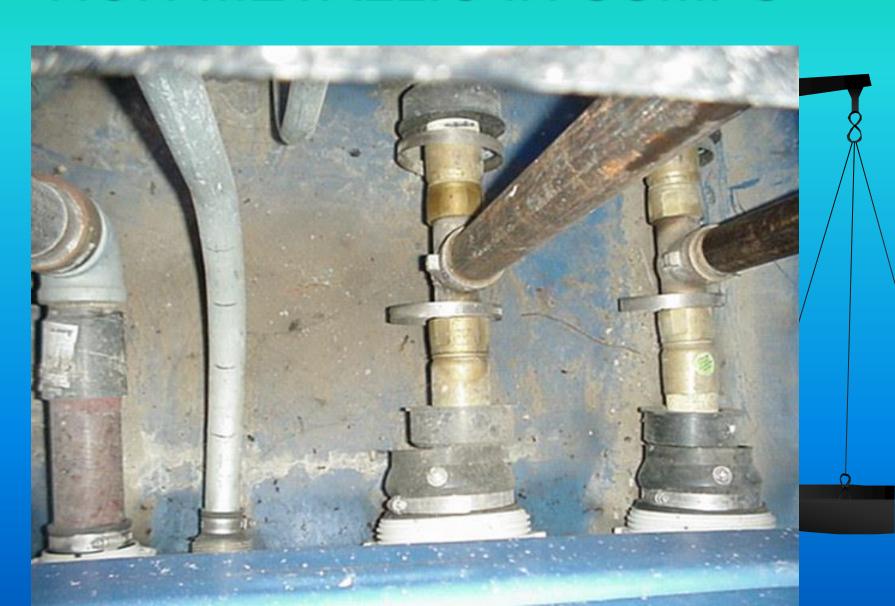
Flex piping



Flex Connectors

- NFPA requirements for dispenser sumps with non-metallic piping, two acceptable methods of protection
- #1 Double poppet shear valves
- #2 Fire suppression,
- Being able to identify the equipment
- Look between the stainless webbing strips
- Cost usually determines what is installed
- Owners are usually not aware of type

NON-METALLIC IN SUMPS





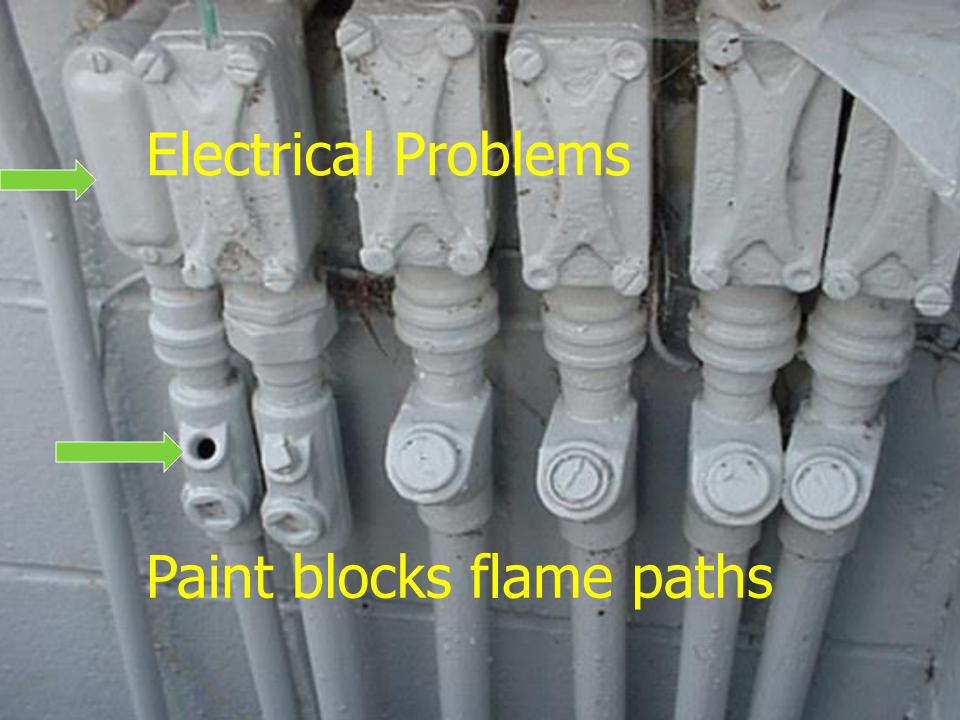




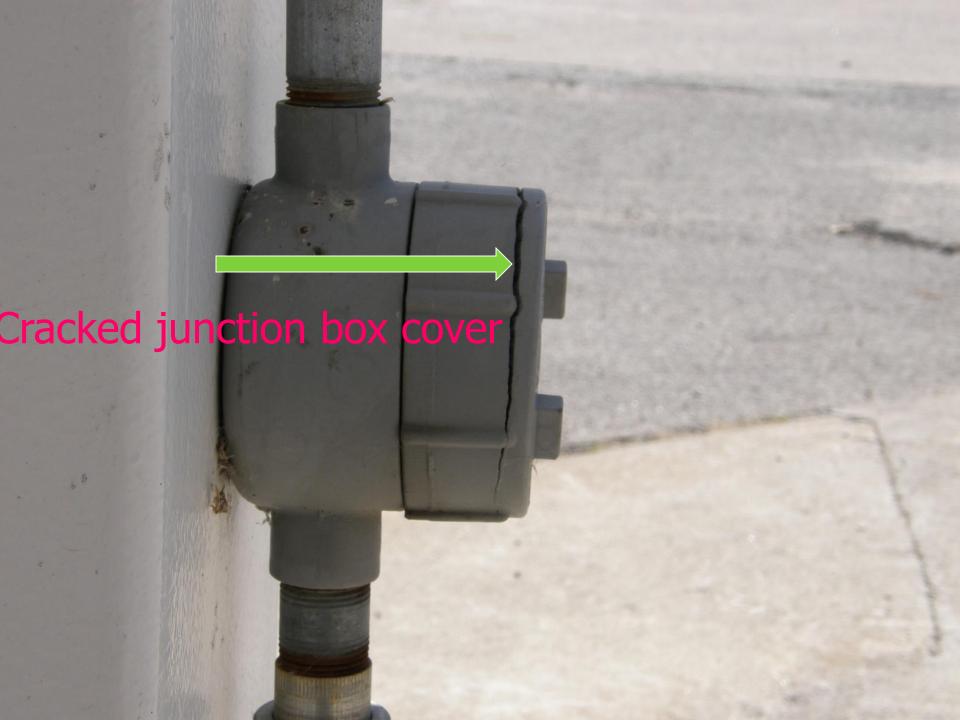


Electrical

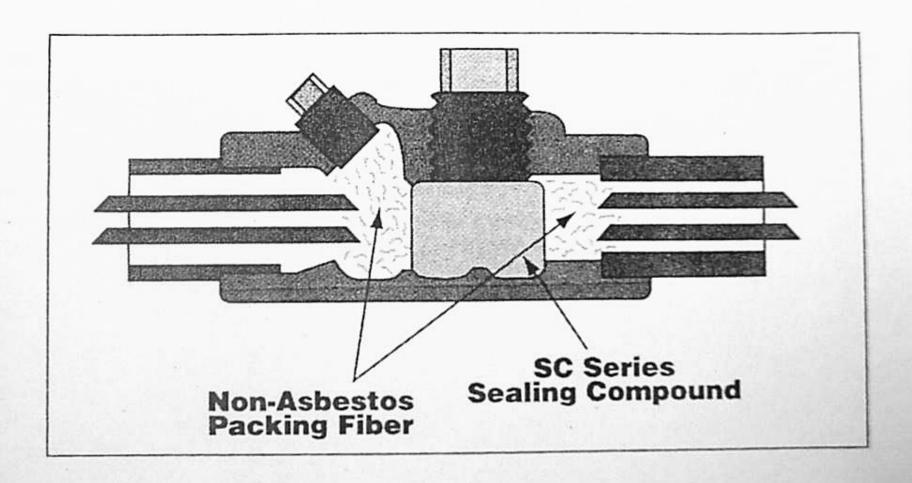
- All electrical fittings inside dispenser cabinets must be clearly marked UL
- Seal offs must be installed and properly filled with compound to prevent vapors from migrating back to the source of ignition (breaker box)







#1 violation



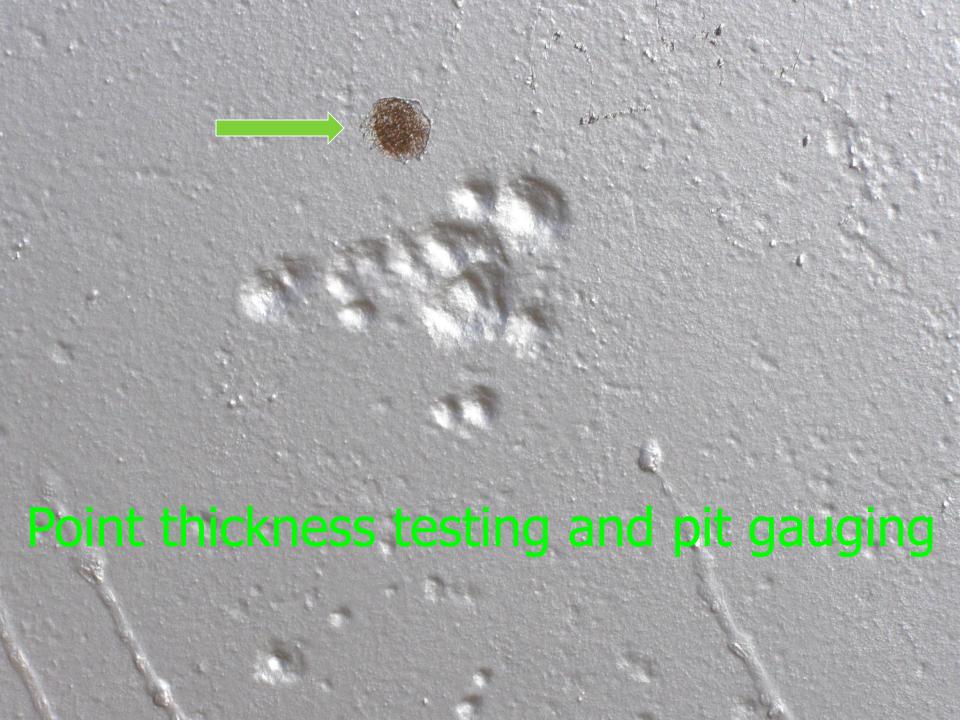
UST'S as AST"S

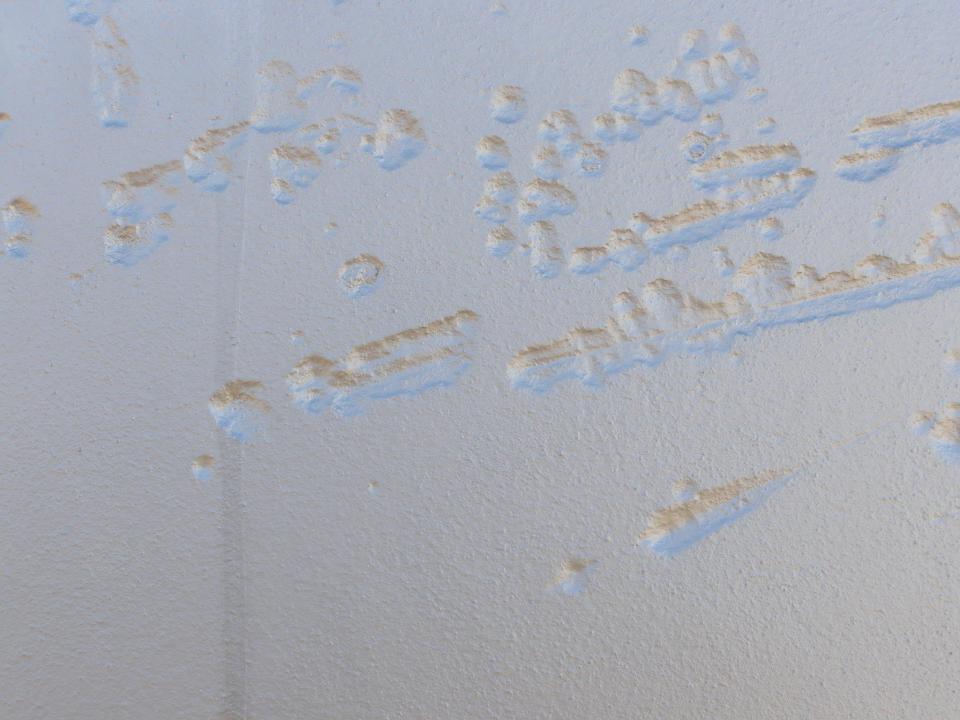
- In 1989, over 1,200 underground storage tanks were in use aboveground at retail fueling facilities in Missouri.
- Today that number is approximately 400.
- Grandfather is ill.
- Enforcement / Insurance / EPA
- Possible rule to be filed in 2014 with a sunset date.











UNLADED NASA PHOTOS

Lunar landing site



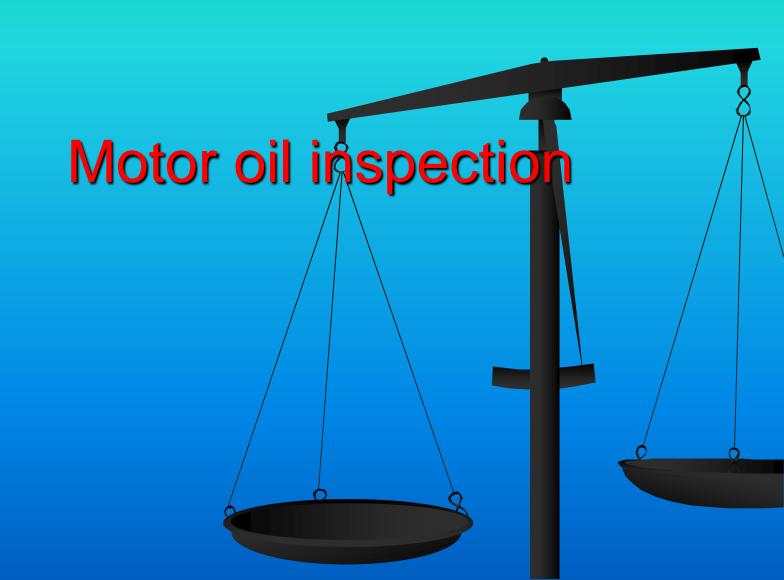




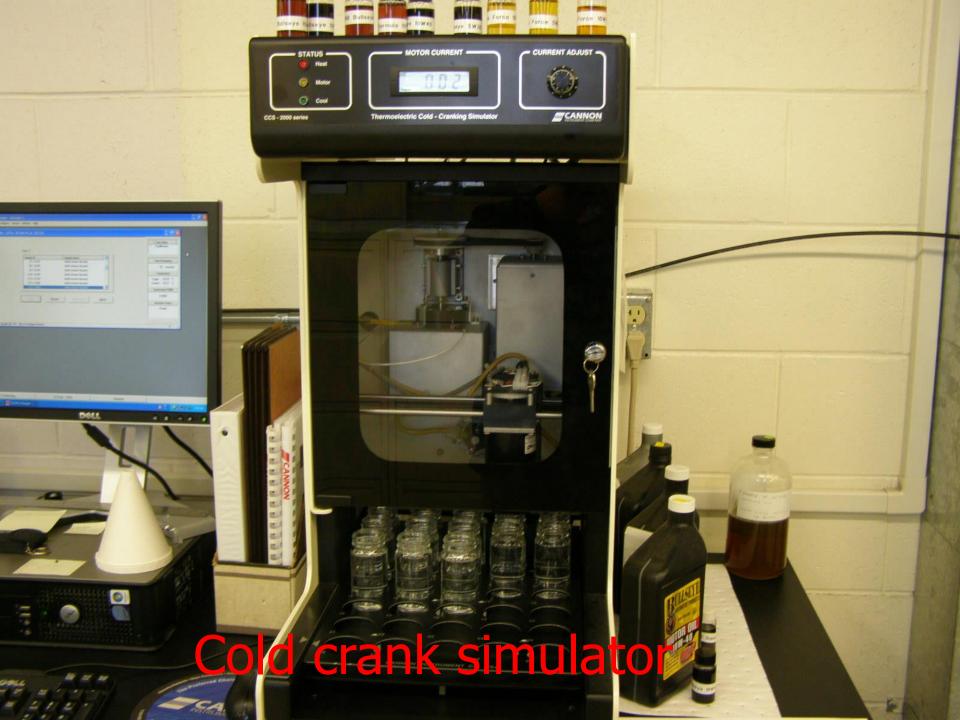


(2014)The entire tank must be painted a light reflective color.

















Financial Responsibility For AST'S







Thank you

MISSOURI DEPARTMENT OF AGRICULTURE

WEIGHTS, MEASURES, and Consumer Protection