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>> Test API-571 Preparation <<

Quiz API - Authoritative API-571 - Test Corrosion and Materials Professional Preparation

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API Corrosion and Materials Professional Sample Questions (Q23-Q28):

NEW QUESTION # 23

High temperature hydrogen attack results from exposure to hydrogen at elevated temperatures and pressures. The hydrogen reacts with _____ in steel to produce _____, which cannot diffuse through the steel. The loss of carbides causes an overall loss in strength.

- A. Carbides, methane
- B. Carbides, oxygen

- C. Alloys, hydrogen dioxide
- D. Hydrogen dioxide, H(2)S

Answer: A

NEW QUESTION # 24

(Which damage mechanism occurs primarily as a result of exposure of interior vessel surfaces to air and moisture conditions during shutdown?)

- A. Wet hydrogen sulfide cracking
- **B. Polythionic acid stress corrosion cracking**
- C. Sour water stress corrosion cracking
- D. Carbonate stress corrosion cracking

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Polythionic acid stress corrosion cracking (PASCC) occurs when sulfide scales on stainless steel surfaces are exposed to oxygen and moisture, most commonly during shutdowns and outages.

Per API RP 571:

* Polythionic acids form when iron sulfides react with air and water

* Cracking occurs in austenitic stainless steels

* Damage is most likely during shutdown, not normal operation

Therefore, PASCC is the damage mechanism directly associated with shutdown exposure conditions.

Referenced Documents (Study Basis):

* API RP 571 - Section on Polythionic Acid Stress Corrosion Cracking

NEW QUESTION # 25

_____ is usually found in aqueous environments or services where water is sometimes or always present, especially where stagnant or low-flow conditions allow the growth of microorganisms.

- A. SOHIC
- B. None of the above
- C. HIC
- **D. MIC**

Answer: D

NEW QUESTION # 26

Hydrogen permeation or diffusion rates have been found to be minimal at pH _____ and increase at both higher and lower pH's.

- A. 0
- B. 1
- **C. 2**
- D. 3

Answer: C

NEW QUESTION # 27

_____ is most likely found in hard welds and heat affected zones and in high strength components.

- A. SOHIC
- **B. SSC**
- C. HIC
- D. Carburization

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