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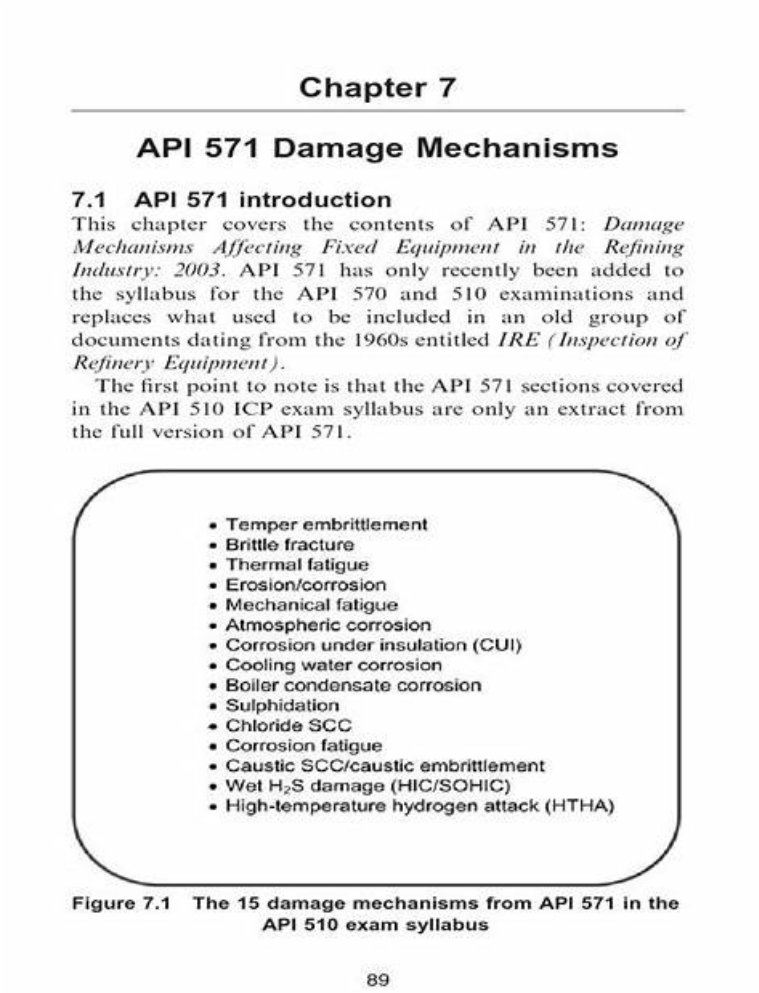

Chapter 7

API 571 Damage Mechanisms

7.1 API 571 introduction

This chapter covers the contents of API 571: *Damage Mechanisms Affecting Fixed Equipment in the Refining Industry: 2003*. API 571 has only recently been added to the syllabus for the API 570 and 510 examinations and replaces what used to be included in an old group of documents dating from the 1960s entitled *IRE (Inspection of Refinery Equipment)*.

The first point to note is that the API 571 sections covered in the API 510 ICP exam syllabus are only an extract from the full version of API 571.

- Temper embrittlement
- Brittle fracture
- Thermal fatigue
- Erosion/corrosion
- Mechanical fatigue
- Atmospheric corrosion
- Corrosion under insulation (CUI)
- Cooling water corrosion
- Boiler condensate corrosion
- Sulphidation
- Chloride SCC
- Corrosion fatigue
- Caustic SCC/caustic embrittlement
- Wet H_2S damage (HIC/SOHIC)
- High-temperature hydrogen attack (HTHA)

Figure 7.1 The 15 damage mechanisms from API 571 in the API 510 exam syllabus

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API Corrosion and Materials Professional Sample Questions (Q31-Q36):

NEW QUESTION # 31
If weld repairs are required, the effects of temper embrittlement can be temporarily reversed (de-embrittled) by heating at _____ for 2 hours per inch of thickness and rapidly cooling to room temperature.

- A. 1000(o) F
- B. 1250(o) F
- C. 1200(o) F
- D. 1150(o) F

Answer: D

NEW QUESTION # 32
The 300 series stainless steels (austenitic stainless steels) are generally resistant to oxidation up to what temperature?

- A. 1600°F (871°C)
- B. 1500°F (815°C)
- C. 1400°F (760°C)
- D. 1300°F (704°C)

Answer: B

Explanation:
According to API RP 571, under Oxidation:
"Austenitic stainless steels (300 Series) are generally used for oxidation resistance up to about 1500°F (815° C). At higher temperatures, scaling and loss of protective chromium oxide layers increase."
"Above these temperatures, specialized high-temperature alloys may be required." (Reference: API RP 571, Section 5.1.1 - Oxidation) Therefore, option C is the correct answer.

NEW QUESTION # 33
Sulfur and chlorine species in fuel will form sulfur dioxide, sulfur trioxide and hydrogen chloride within the combustion products. At low enough temperatures, these gases and the water vapor in the flue gas will condense to form _____ acid.

- A. Hydrochloric
- B. Both A and C
- C. Sulfuric
- D. Hydrofluoric

Answer: B

NEW QUESTION # 34
Once cracking from LME has occurred, grinding out the affected area _____ an acceptable fix.

- A. Is not

- B. Is
- C. Can not be
- D. Can be

Answer: A

NEW QUESTION # 35
Damage from sigma phase appears in the form of________.

- A. Corrosion
- B. Cracking
- C. Hardness
- D. Ductility

Answer: B

Explanation:
Explanation/Reference:

NEW QUESTION # 36
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