-	1 1_0_1_1_N	M T W T F	s s		
	975	Date:	YOUVA		
6 1.	Difference de la companya de la lada de la companya	Extractor &			
1	PITTING CORROSION				
,	Z with and the description of a carrie	tu na	e e e		
	I pit maybe described as a cavity on hole with the swyace diameter about the same				
	length as on less than the depth				
	congin us on der main mouse and	i neviousi n		1.00	
	Important reasons are:				
	"Surface eroughness on non uniform finishe				
	· Scratches on cut edges				
	· Local Majorina D metal due	to none	nidosan	4	
	Aven Maining of metal, due to nonunisom				
	· Depositions of enteraneous matter				
	Scale, water drop, dust etc.				
	contact with an elictroluter.				
	(asta memoded)			•	
29/11 od	Pitting is usually due to breakdown	on cro	icking		
	of the protective film on a metal	at specif	ic points		
Since	er sait heigher ward and electeral ection	Neto		pet the	
	Pitting convosion is characterized by	mall an	odic	- 00	
	area and large cathodic area, nen			3	
3 43 1	accelerated corrosion at the anoclic a	oua.		0.45	
	be-St nolder arrived by wine	9			
gains	It is an auto catalytis peroces, wi	h he H	inihall	7	
	Josemed pit producing conditions	which a	re both	•	
	stimulating and necessary for the continuing				
	activity of the pit.	is /			
	POPPLIS ATTACK CO	ONETINUE	S AT AND	Œ	
	CORROSION AREA BE	ENEATH COR	OBUETS,		
	CATHODE				
		- 1.14			
		IODF:			
	ORIGINABL AN	, 500			

1	It is a localized and intense form of corrosion
	and jailure occurs with extreme suddenners.
(1.20)	a series since chiliste a checking works flores
	STRESS CORROSION
	Capiliany Calons
bma	Cracking of metal caused by the combined effect
	of a tensile stress and a specific comonve
0.10	environment on the metal. Here, the corrosive
1. D.	agents are highly specific and selective.
A. Arab	Meured and the come of alkali is harely
	The metal atoms under stows possesses higher
40	energy levels than the one with free Journ strees
0000	The stressed part of the metal becomes more
	active than the stores force part
	nence: Anode- storessed part.
	Cathodi-stress free pout
7	stressed part undergoes coverasion
11.00	. Naon is suginfinited and magnification
000	Eg: Scason oracking of breas.
3.3	Causha embrittlement of steel.
100 90	properties like and Kinsellity and duckli
-	CAUSTIC EMBRITTLEMENT
64 1	It becomes builting the healthcomes is order
	This is a dangerous and occurs in mild stell,
de .	exposed to alkaline solutions at high temp and
	Marenes . 2000 in the land land
•	Water Jed into boilers may contain free alkali
	(dime anda hancers)
	Na co (aq,) + 1/20 - 2140011 2 (g)
	Local Meusses exist in metal sheets of boiler under exists.
•	Local Newses was in the
	syrets.

- · Minute cracks divelop on the metal sheets
  when the stores is releieved.

  · Yhis very dilute alkaline water flows into
  the minute hair cracks and crevices by
  - caushic social come builds up:
    - This conc alkali dissolves in on as sodium fernoare in crunices/cracks, where the metal is stoussed and the conc of alkali is much higher than that in the body of the liquid
      - The sochium journoute decomposes, a short clistance away from its point of Journation 3Na Fe 02 + 4H2O -> 6 Na OH + Fe 304 + H27

6 Na Fe 0 + 64 0 + 0 -> 12 Na OH + 2 Fe 3 04

- Naon is originarated and magnetite is precipitated.

  Theorby enhancing further dimolution of iron.

  When iron changes to these oxides metallic proporties like malleability and ductility are lost.
- · It becomes brittle. The brittleness is cound by course alkali.
- and unstrumed part of the metal.

Inon (one NaOH: Dil Na OH Inon.
(Atremed) (unstremed)
ANODIC CATHODIC

