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浮码头的检测与评估实例分析

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摘　要：浮码头在实际运营中，受复杂环境影响，其技术状况逐年下降，对人们的生命及财产有着一定的影响。本文以某营运数年的浮码头检测与评估为例，详细阐明浮码头（钢结构）具体检测内容及方法，根据检测结果对码头进行评估。为其他类似浮码头的检测与评估提供参考。
关键词：浮码头（钢结构）；检测内容、方法；检测与评估
中图分类号：U656.1+17　**文献标识码：**A

Example Analysis of Detection and Evaluation of Floating Wharf

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Abstract: In the actual operation of Floating Wharf, affected by the complex environment, its technical status is declining year by year, which has a certain impact on people's lives and property. Taking the inspection and evaluation of a floating wharf which has been in operation for several years as an example, this paper expounds in detail the specific inspection contents and methods of the Floating Wharf (steel structure), and evaluates the wharf according to the inspection results. It provides a reference for the inspection and evaluation of other similar floating wharfs.

Keywords: Floating Wharf (steel structure); Test contents and methods; Detection and evaluation

引言

1 项目概述

88

12　SA-A500　49

3.0　3.0

3.5

2KPa

3KPa　Q235-C

200

2 检测内容与方法

2.1

2.2

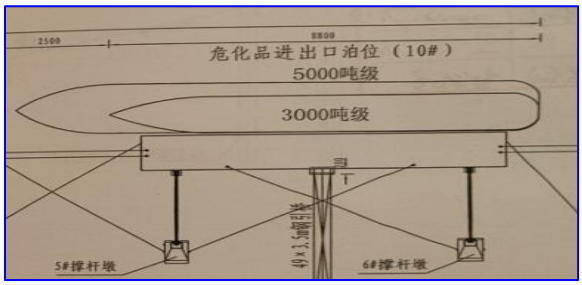
JTS 304-2019[1]

2.3

1

GB/T 50621-2010[2]　10

2　12



1

3.1

3 5% 10

4

GB/T 50621-2010[2] 7

3 检测结果

1

1			1#		1
2			1#		2
...	/	/	/	/	...

1. 1#

2. 1#

...

2

3.2

3.2.1

2 2

2

		3 mm			mm	mm
1#	1-1Z XC	10.2	8.8	10.7	9.9	10
2#	2-2Z SC	8.3	8.3	8.0	8.2	8

		3 mm			mm	mm
...	/	/	/	/	/	/

539A

3.2.2

15

3

		μm	μm

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						μm	μm
1#	1-1 ZXC	189	186	188	190	194	189
2#	2-2 ZSC	277	267	275	285	280	277
...	/	/	/	/	/	/	/

3.2.3

6

4

		6 MPa)	MPa)	%
1#	1-1ZX C	3.5	2.6~4.0	20%B,80%B/ C
2#	2-2ZSC	3.8	3.0~4.8	20%B,80%B/ C

5

6

4.2

4.2.1

		6 MPa)	MPa)	%
...	/	/	/	/

4.1MPa 3.5~4.7MPa

GB/T5210-2006[3] 9

ISO12944[4]

3.2.4

28 6m

9

4 评定与评估

4.1

4.1.1

JTS 310-2013[5]

4.1.1

3.1

3

4.2.2

$$V_1 = \frac{D_i - D_f}{(1-\beta)t_{s1} + t_{s2}}$$

0 0.03mm/a

4.2.3

3

1

B

B

2

B

B

3

B

4.2.4

1

B

2

B

4.2.5

3

B C B

5 结论与建议

5.1

1

2

B

B

B

B

5.2

1

2

3

4

6 结束语

参考文献：

[1] . JTS304-2019. : ,2019.

[2] . GB/T50621-2010. : ,2010.

[3] . GB/T5210-2006. : ,2007.

[4] ISO/TC35 . ISO12944.

[5] . .JTS310-2013. : ,2013.