

Certificate

Monitoring of Final Assessment

acc. to Directive 97/23/EC

Certificate no.: 01 202 CHI/Ü-16 0011

Name and address of the manufacturer: Harbin First Line Environment Technology Co., Ltd.

No. 10 Qingdao Road, Haping Road Centralized Industrial Park,
Harbin Development Zone, Harbin, Heilongjiang P.R. China, 150060

According to the test results, the manufacturer is entitled to mark the pressure equipment produced within the range of this module with the mark:

CE 0035

Tested acc. to Directive 97/23/EC:

Internal manufacturing checks with monitoring of the final assessment (Module A1)

Test report no.:

1140025723-1

Description of pressure equipment:

Fiberglass Reinforced Plastic(FRP) Pressure Vessels

Type: F80-1000S/E, F80-1200S/E

Manufacturing plant:

Harbin First Line Environment Technology Co., Ltd.

No. 10 Qingdao Road, Haping Road Centralized Industrial Park,
Harbin Development Zone, Harbin, Heilongjiang P.R. China, 150060

During the periodical monitoring, compliance with the directive has been demonstrated. The next monitoring will be performed in Oct. 2016.

Beijing, May. 04, 2016

Ren Yuechong

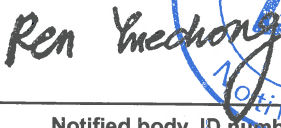
TÜV Rheinland-Certification Body for
Pressure Equipment
TÜV Rheinland Industrie Service GmbH
Notified Body, ID-No. 0035
Am Grauen Stein, D-51105 Köln

TUV Rheinland (China) Ltd.
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D-014-Rev7

Test report - Monitoring of the Final assessment by unexpected visits

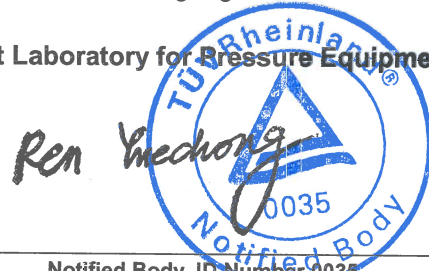
Date of test: Apr. 25, 2016		Test Report No.: 1140025723-1	
MODULE:	A1 Internal manufacturing checks with monitoring of the final assessment ☒ C1 Conformity to type ☐ H1 Special surveillance of the final assessment ☐ E Final assessment according to Article 10, sec. 1.5. on pressure equipment in ☐ D categories III and IV referring to table 1, 2, 3 or 5 ☐		
Manufacturer: Harbin First Line Environment Technology Co., Ltd. No. 10 Qingdao Road Haping Road Centralized Industrial Park Harbin Development Zone, Harbin, Heilongjiang P.R. China, 150060		Manufacturing plant: Same as left	Supplier:
SPECIFICATIONS:		Pressure Equipment Directive 97/23/EC	
PRODUCED DOCUMENTS:	Manufacturing documents (Module A1,-C1,-H1) ☒ Certificate on the EC type-examination B (Module C1) ☐ Certificate on the design-examination (Module H1) ☐ Certificate on the QM-System approval (Module E, D, H1) ☐		
EXAMINATIONS CARRIED OUT:		Accept- able	Remarks
1.	The afore-mentioned technical documents, test reports and certificates are available	X	
2.	The technical documents meet the provisions of the Directive which apply to it	X	
3.	The final assessment tests acc. to Annex I, sec. 3.2 are carried out to the required extent	X	
4.	Examination of one or more pressure equipment units: Mfg./Serial No.: F80-1000S/E, F80-1200S/E	X	Test report as attachment
RESULT: The above-mentioned examinations were performed in accordance with the provisions of the stated specifications. Module A1: The issue of the certificate is recommended.			
Location: Beijing		Date: May 04, 2016	
		Test Laboratory for Pressure Equipment  	
Attachments: Test report No.: 1140025723-1-1		Notified body, ID number 0035	

For the order processing we have stored essential object data and the address. The protection of the data is guaranteed.

The test results relate exclusively to the described test object. Partial copies of the test report without a written authorization by the test laboratory is not permitted.

Test report - Unfired Pressure Equipment

Final inspection and Proof test ☒		Final inspection ☐		Proof test ☐	
Module: G ☐ F ☐ A1 ☒ C1 ☐ H1 ☐			Test Report No.: 1140025723-1-1		
Manufacturer: Harbin First Line Environment Technology Co., Ltd. No. 10 Qingdao Road Haping Road Centralized Industrial Park Harbin Development Zone, Harbin, Heilongjiang P.R. China, 150060		Manufacturing plant: Same as left		Supplier:	
TECHNICAL DATA: Mfg./Serial No: F80-1000S/E, F80-1200S/E Trade mark: FIRST LINE Category: I Intended use: Fiberglass reinforced plastic (FRP) pressure vessel Year built: 2016					
Chamber	A- F80-1000S/E	B-F80-1200S/E			
Max. allowable Pressure PS [bar]	69	83			
Max./min. allowable Temperature TS [°C]	-10°C~66°C	-10°C~66°C			
Volume V [L]	206	206			
Fluid/Fluid Group	2	2			
SPECIFICATIONS – DIRECTIVE 97/23/EC: 1. Regulations/Codes: AD 2000 TRD ASME Sec. VIII Applied in full ☐ ☐ ☒ Applied in part ☐ ☐ ☐ Parts not applied:					
2. Standards/other Specifications:					
PREVIOUS TESTS: EC Type-Examination ☐ EC Design-Examination ☐ Examination of Design ☐ Notified body: TÜV Industrie Service GmbH, Am Grauen Stein, 51105 Cologne / GERMANY Certificate/report No.: Date:					
FINAL INSPECTION: Safety relevant dimensions of the assembly F80-1000S/E, F80-1200S/E correspond with drawing No.: Notified Body / Certificate/Report No. / Date: TUV Rheinland/ Apr.25.2016					
PROOF TEST: Notified Body / Certificate/Report No. / Date: TUV Rheinland/ Apr.25.2016 --					
Chamber	A	B			
Test Pressure PT [bar]	103.5	125			
Test Fluid	Water	Water			
Test Date	Apr.25,2016	Apr.25,2016			

Manufacturing/Serial No.:		F80-1000S/E, F80-1200S/E		Test Report No.:	1140025723-1
	MEASUREMENTS / EXAMINATIONS AND RESULTING EVALUATIONS (CHECKLIST)	Accept- able	Not applicable	Remarks	
1.	Qualification of personnel performing permanent joining		X		
2.	Qualification of operating procedures		X		
3.	Records on base materials and consumables		X		
4.	Material traceability	X			
5.	Heat treatment records		X		
6.	Production tests	X			
7.	Qualification of NDE personnel		X		
8.	Non-destructive examination test reports		X		
9.	Calibration of measurement and test equipment	X			
10.	Visual inspection	X			
11.	Dimensional check	X			
12.	Marking of equipment	X			
13.	Records on repair and modifications		X		
14.	For module G: application (annex III, module G, No. 2)		X		
15.	Hazard analysis	X			
16.	Operating instructions	X			
17.	Draft of the declaration of conformity	X		available / not-available	
Remarks:					
MARKING ON:					
RESULT:					
The above-mentioned inspections were performed in accordance with the provisions of the stated test requirements/specifications.					
The issue of the certificate of conformity is recommended. ☒					
The Proof Test must yet be performed before awarding of the certificate (certificate of conformity) ☐					
The Final Inspection must yet be performed before awarding of the certificate (certificate of conformity) ☐					
Notes: 1. There may be additional requirements applicable to the test object, e.g. acceptance test on the site prior to beginning of operation or the conformity to other EC Directives. 2. The operating instructions should be drawn up in the official language of the destination country.					
Location: Beijing Date: 2016-05-04 Test Laboratory for Pressure Equipment 					
Attachments: -- Notified Body, ID Number 0035					

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