



Marine Design Appraisal Document

Lloyd's Register EMEA
Copenhagen Technical Support Office
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Date
23 March 2015

Please quote this reference number on all future communications
M/1108297/1401248/PHE/cpz

Machinery General Design Appraisal

Client : CC Jensen A/S, Svendborg, Denmark
Manufacturer : CC Jensen A/S, Svendborg, Denmark
Subject : Type PTU2 27 – Oil Filter Separator

This Machinery General Design Appraisal is valid for a period of 5 years from the date of issue or until a change of the Rules, whichever comes first.

1. The Documents listed in paragraph 1 of the appendix have been examined for compliance with **LR Rules and Regulations for the Classification of Ships July 2014, Part 5, Chapters 11, 12, 13 and 14** as applicable and have been assigned an appraisal status as indicated subject to the following:

2. Product Description

Makers Designation : CJC PTU2 27/27
Class : III (piping)
Design Pressure : ≤ 7 bar
Design Temperature : ≤ 60 °C
Function : Oil Filtration System

3. Comments

- 3.1. Lloyd's Register must be advised of any design or material modifications. Failure to do so will render this general approval invalid.
- 3.2. Please observe that the requirements of the European Directive "The Marine Equipment Directive" will be applicable for installations on board all EU Flag vessels.

AQS

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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- 3.3. The items referred to in this document are approved for installation on a ship which is classed by Lloyd's Register.
- 3.4. For precaution against fire the equipment is to be installed, screened or otherwise suitably protected as per Part 5, Ch. 14, 2.9, 8.15 and 9.7 where applicable. AQS
- 3.5. The filter dome is considered as a Class 3 pressure vessel according to Part 5 Chapter 11 1.5.3, although it is not subject to plan approval according to 1.6.1.
- 3.6. It is noted that piping dimensions and specifications are provided on the document titled "*CJC Filter Units – Piping dimensions and specifications – Version 1.1*", and are compliant with Part 5 Ch. 12.
- 3.7. It is assumed that piping joints, valves, flanges and other fittings are suitable for the application. For details please refer to Part 5, Ch. 12, as they will be subject to inspection by the attending surveyor. AQS
- 3.8. With reference to Part 5, Ch. 12, 4.2 concerning the material of the filter base, it has been noted that substantial positive functional experience has been recorded by the client and therefore the use of grey cast iron, GG20, has been accepted. Part 5, Ch. 12, 4.2.3 is to be considered for pipes, valves and fittings only. AQS



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Appendix

1. The documents listed below have been examined

Document No.	Rev.	Title	Status	Date
46 090 01-3 (2 sheets)	2	CJC Filterseparator type PTU2 27/27 -Assembly Drawing + Parts List	SI	23 Mar 2015
1600124	B	Filterfod type PTU2	SI	23 Mar 2015
4800132	B	Haette for 27/27, 54, 81, 108 delt og 108 udelt Skemategning	SI	23 Mar 2015
1802302	A	Hus f.forvarmer indstik 500mm	SI	23 Mar 2015
12 01 14-4	3	Stagbolt for Filterseparator type PTU2 27/27	SI	23 Mar 2015
7000635	-	PTU2 27/27 Piping Diagram	AQ	23 Mar 2015
7000645	-	PI Legend	SI	

2. The documents listed below have been considered together with the submitted documents in the appraisal

Document No.	Rev.	Title
-	-	PTU2 27/27- CJC Product Sheet
-	-	Design Specifications: E-mail 23/03/2015
-	1.1	CJC Filter Units – Piping Dimensions and Specification

Appraisal Status Key

AQ	Approved subject to the matters raised that require resolution - and provided the arrangements are to the surveyor's satisfaction
AQS	Details to be submitted by the client to the local surveyor's Office responsible for surveying the building and the arrangements verified in accordance with the Rule/Regulations requirements by the surveyor.
SI	Retained as supporting documentation for information only

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