

Type Approval Certificate Extension

This is to certify that Certificate No. 94/20036 (E2) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	W. Lösing Filtertechnik Am Walzwerk 2 45527 Hattingen Germany
DESCRIPTION	Water separator and light diesel fuel oil filter. Filtering and water separation be achieved by a cartridge and a centrifugal system. Housing from aluminium alloy with metal bowl with water level indication contacts. Flow capacity between 5 and 130 l/min.
TYPE	"Separ 2000"
APPLICATION	Filters for light diesel fuel oil installed in the suction side between fuel oil tank and delivery pump on ship and offshore installations classed or intended for Classification with Lloyd's Register. For installation and maintenance the producer's instructions and recommendations to be adhered.
STANDARD	Lloyd's Register Rules and Regulations for Classifications of Ships, 2009

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. HPC/HMD 1355-99, Issue No. 3, dated 20.11.2009 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 94/20036 (E2) to which this extension should be attached.

Certificate No.	94/20036 (E3)
Issue Date	20 November 2009
Expiry Date	07 August 2014
Sheet	1 of 1


Olaf Schmidt
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Marine Design Appraisal Document

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Date
20 November 2009

Quote this reference on all future communications
HPC 0910358/24652-09/OS/RJ

**THE LLOYD'S REGISTER'S TYPE APPROVAL SYSTEM, 2002
ISSUED TO: W. LÖSING FILTERTECHNIK
FOR: WATER SEPARATOR AND LIGHT DIESEL OIL FILTER
TYPE APPROVAL CERTIFICATE NO. 94/20036 (E3)**

**This Marine Design Appraisal Document supersedes and cancels
document number HPC/HMD 1355-99, Issue No. 2, dated 04.11.2004**

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register's Type Approval System, 2002, and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Form LR6606	Lloyd's Register Approval Services - Request for Quotation	18.08.2009
06 2738 Rev. A	SWK-2000/130 UMS	07.07.2003

TEST REPORTS

DTM 0921081/1	Visit Report	27.10.2009
571656/01	pressure loss curves, water separation capability and solid particle separation capability at filter Racor 1000 FG by RWTüV	28.04.1994
478785/01	same tests as above at SWK 2000/130 by RWTüV	08.04.1994
478782/01	pressure loss curves, water separation capability, solid particle separation capability and back flushing at filter SWK 2000/40 M by RWTüV	04.03.1994
WTD 71-213-003/94	Vibration- and shock test by WTD Kiel	11.01.1994

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

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TEST REPORTS, continued

120371993	Wet fire endurance test by MPA NRW	02.11.1993
455288/01 - 03	Pressure loss curves, water separation capability, solid particle separation capability and back flushing at filter SWK 2000/5, 2000/5-50 and 2000/10 by RWTÜV	20.11.1992



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Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the LR Type Approval System Procedure.

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