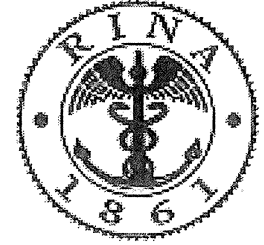


TYPE APPROVAL CERTIFICATE
No. MAC239909CS/001



This is to certify that the product identified below is in compliance with the regulations herewith specified.

<i>Description</i>	Filters
<i>Type</i>	Fuel oil filter type SEPAR 2000 SWK-2000/5 SWK-2000/5/50 SWK-2000/10 SWK-2000/18 SWK-2000/40 SWK-2000/130 (M OR MK OR UM OR UMK)
<i>Applicant</i>	VULKAN ITALIA SRL VIA DELL'AGRICOLTURA, 2 15067 NOVI LIGURE (AL) ITALY
<i>Manufacturer</i>	WILLIBRORD LOESING FILTERTECHNIK
<i>Place of manufacture</i>	ESSENER STRASSE 108 45529 HATTINGEN GERMANY
<i>Reference standards</i>	Part C, Chapter 1, Section 10 of RINA Rules

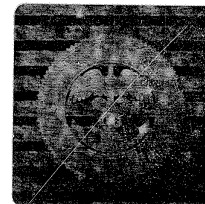
Issued in **Genoa** on **September 21, 2009**. *This Certificate is valid until* **September 20, 2014**



RINA

Francesco Sciacca

This certificate consists of this page and 1 enclosure



TYPE APPROVAL CERTIFICATE

No. MAC239909CS/001

Enclosure - Page 1 of 1

Fuel oil filter type SEPAR 2000

Reference documents

Drawings Nos. : 06 2991 Rev. E (PPVT-6965), 06 2992 Rev. B (PPVT-6964), 06 2993 Rev. C (PPVT-6963), 06 2996 Rev. F (PPVT-6962), 06 2731 Rev. F (PPVT-6966), 06 2409 Rev. F (PPVT-6972), 06 2604 Rev. D (PPVT-6968), 06 2413 Rev. G (PPVT-6971), 06 2417 Rev. F (PPVT-6970), 06 2419 Rev. G (PPVT-6969) and 06 2729 Rev. E (PPVT-6967)

Fire endurance test report, MPA NRW 12 0371 9 93 dated 02.11.1993

Materials

Casing material : GK-ALSi12 (Aluminium casting alloy)

Other components, see part list on the a.m drawings

Fields of application

Water separator and diesel fuel oil or lubricating oil filters, installed on the oil suction pipe lines, between fuel or lubricating oil storage tanks and delivery pumps, of ships Classed with RINA.

Remarks

The selection of the filters for the corresponding application and the proper installation and maintenance are to be in accordance with the Manufacturer's instructions.

The acceptance of the a.m. products on board of ship and other units classed with RINA is subject to the satisfactory outcome of testing as per the applicable RINA Rules.

Genoa July, 13, 2009

