Gdańsk, April 19, 2022

DAFO FOMTEC AB
(Encl.:1) Vindkraftsvagen 8
SE-135 26 Tyreso
SWE

our ref.: **MEMPP / MED031322XP/001-007 / on 19/04/2022 (2022-XP-01-313)**

subject: **EC TYPE EXAMINATION (MODULE B)**
No.MED031322XP/001
FOMTEC AFFF 1% F
No.MED031322XP/002
FOMTEC AFFF 3%
No.MED031322XP/003
FOMTEC AFFF 6%
No.MED031322XP/004
FOMTEC P 3%
No.MED031322XP/005
FOMTEC P 6%
No.MED031322XP/006
FOMTEC FP 3% AR
No.MED031322XP/007
FOMTEC AFFF 3% Ultra LT

Please find herewith enclosed the above Certificates issued on April 19, 2022.
The particulars of the certificates will be included in the list of equipment, devices and materials EC type approved by RINA.
The above mentioned EC Certificate supersedes and replaces the previously EC Type Examination Certificates.

At your disposal for further information, we remain.

Yours faithfully
RINA

RINA Services S.p.A.
Via Corsica, 12 - 16128 Genova
Tel +39 010 53851
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EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED031322XP/007

This is to certify *that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2021/1158.*

MED Item N°	**MED/3.58**
Description	**Fixed low expansion foam fire extinguishing systems components for machinery spaces and tanker deck protection**
Type	**FOMTEC AFFF 3% Ultra LT**
Applicant	**DAFO FOMTEC AB** Vindkraftsvagen 8 SE-135 26 Tyreso SWEDEN
Testing standards	**IMO MSC.1/Circ.1312; IMO MSC.1/Circ.1312/Corr.1**
Reference standards	**SOLAS 74 Reg.II-2/10, IMO Res.MSC.98(73)-(FSS Code) 6, IMO Res.MSC.98(73)-(FSS Code) 14, IMO MSC/Circ.1239, IMO MSC.1/Circ.1276.**

Issued in Gdańsk on
April 19, 2022

This Certificate is valid until
April 18, 2027

This Certificate consists of this sheet plus an attachment

Jaroslaw Kondracki
RINA Services S.p.A.

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ATTACHMENT TO CERTIFICATE No. MED031322XP/007

Manufacturer

DAFO FOMTEC AB - DAFO FOMTEC AB (Production & R&D)

Place of Manufacturer

Garnisonsgatan 47A
SE-254 66 Helsingborg
SWEDEN

Technical Characteristics

Foam Concentrate FOMTEC AFFF 3% Ultra LT	
Type of foam concentrate	Synthetic, Newtonian Film Forming Foam Concentrate (AFFF)
Mixing Ratio	3%
Specific gravity [g/ml]	1.06
Viscosity at 20°C [mPas]	<20
pH at 20°C	7.3 - 8.3
Min. usage temperature [°C]	- 18
Max. usage temperature [°C]	+ 49
Expansion at 20 °C	8:1
Drainage 25% [min]	3' 00"
Use Concentration	3 parts concentrate in 97 parts of water

Field of Application

For fixed foam fire extinguishing systems intended for use on class B hydrocarbon fuel fires such as oil, diesel and aviation fuels.

Test Carried Out

According to IMO MSC/Circ.1312 - "*Revised guidelines for the performance and testing criteria and surveys of foam concentrates for fixed fire-extinguishing systems*".

Technical Documentation

- Lloyd's Register Test Reports n° HBG1310107/1 dated 22/08/2013 and filled with no. PLFP/2252
- Fomtec AFFF 3% Ultra LT technical data sheet dated 03/07/2018 and filled with no. PLFP/2197
- Risk Assessment Fomtec AFFF 3% Ultra LT and filed by RINA with n° PLFP/2192

Remarks

Each foam concentrate container should be marked with complete information needed to identify the liquid and confirm its intended use, in compliance with the requirement of Par. 3.13, MSC.1/Circ.1312.

The foam concentrate should be delivered with a "Declaration of Conformity". The declaration should be issued by the maker and will be the basis for the annual condition test.

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ATTACHMENT TO CERTIFICATE No. MED031322XP/007

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body



XXXX/YYYY

"WHEELMARK FORMAT"

XXXX Notified Body number undertaking surveillance module

YYYY The year in which the mark is affixed

General conditions for the approval

a) The initial conditions verified by RINA at the time of the approval are to be maintained

b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment

c) This certificate will no be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA

d) RINA personnel are to be allowed to witness during the performances of activities, upon their request

e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules

f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.

Jaroslaw Kondracki

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