



TYPE APPROVAL CERTIFICATE
No. **MAC228925XG**

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

<i>Description</i>	Sterntube seals
<i>Type</i>	SUPREME Series : LDA LDF SAA SG SGA SGV STA STF SVA TS3 TS4 TS4-2 TSV4
<i>Applicant</i>	LAGERSMIT SEALING SOLUTIONS B.V. NIEUWLAND PARC 306 2952 DD ALBLASSERDAM NETHERLANDS
<i>Manufacturer</i>	LAGERSMIT SEALING SOLUTIONS B.V.
<i>Place of manufacture</i>	NIEUWLAND PARC 306 2952 DD ALBLASSERDAM NETHERLANDS
<i>Reference standards</i>	Part C, Chapter 1, Section 7 of RINA Rules for the Classification of Ships

Issued in **HAMBURG** on **August 13, 2025**. *This Certificate is valid until* **August 12, 2030**

Giuseppe Russo

RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

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SUPREME Series : LDA LDF SAA SG SGA SGV STA STF
SVA TS3 TS4 TS4-2 TSV4

Reference Documents

Lagersmit drawings approved with no. HMMC-17676. and dispatched with letter HMMC/2020/00844/AVE01

Fields of application

Seals for oil and grase lubricated propeller shaft sterntubes, for shaft diameter from 70mm to 820mm.

Materials / Components

See Material Specification of approved drawings.

Technical Characteristics

DRAWING	MODEL & TYPE	RANGE of SIZES	PID	ADDITIONAL NOTES
TA-SUP-30	SUPREME LDA After Seal	as per Data Sheet 04-30-100	PID-LD PID-LD-G	N/A
TA-SUP-X31	SUPREME LDF Forward Seal	as per Data Sheet 04-35-100	PID-LD PID-LD-G	N/A
TA-SUP-X60	SUPREME SAA After Seal	as per Data Sheet 04-60-100	PID-SAA MK2017	COMPLIES WITH I.W.S. Rules
TA-SUP-X10	SUPREME SG After Seal	as per Data Sheet 04-20-100	PID-SG	COMPLIES WITH I.W.S. Rules
TA-SUP-X65	SUPREME SGA After Seal	as per Data Sheet 04-65-100	PID-SGA MK2017	COMPLIES WITH I.W.S. Rules
TA-SUP-X15	SUPREME SGV After Seal	as per Data Sheet 04-25-100	PID-SGV MK2017	COMPLIES WITH I.W.S. Rules
TA-SUP-01	SUPREME STA After Seal	as per Data Sheet 04-10-100	PID-ST	COMPLIES WITH I.W.S. Rules
TA-SUP-X20	SUPREME STF Forward Seal	as per Data Sheet 04-15-100	PID-ST	N/A
TA-SUP-X05	SUPREME SVA After Seal	as per Data Sheet 04-12-100	PID-SVA MK2017	COMPLIES WITH I.W.S. Rules
TA-SUP-X40	SUPREME TS3 Thruster Seal	N/A	PID-TS3	N/A
TA-SUP-X41	SUPREME TS4 Thruster Seal	N/A	PID-TS4	N/A
TA-SUP-X42	SUPREME TS4-2 Thruster Seal	N/A	PID-TS4	N/A
TA-SUP-X43	SUPREME TSV4 Thruster Seal	N/A	PID-TSV-AZIM	N/A

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**SUPREME Series : LDA LDF SAA SG SGA SGV STA STF
SVA TS3 TS4 TSA-2 TSV4**

The file TA-SUP-OPT (in the booklet HMMC-17676) shows the Optional Extras that can be applied to all the seals above mentioned.

The file TA-FWD-OT (in the booklet HMMC-17676) shows the Oil Tank that can be used in combination with all the seals above mentioned.

Field of Application

Seals for oil and grease lubricated propeller shaft Sterntubes and Thrusters.

Acceptance conditions

The acceptance of the above mentioned products on board ships and other units classed with RINA is subject to the satisfactory outcome of testing as per RINA Rules.

The installation on board is to be made in accordance with the manufacturer's recommendations in compliance with all applicable RINA Rules.

Remarks: *This certificate annuls and replaces MAC017720XG.*

HAMBURG August 13, 2025

