



CERTIFICATE OF TYPE APPROVAL

This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer	Takashina Life Preservers Co., Ltd
Address	1-1-30, Kuboyoshi, Naniwa-Ku Osaka, 556-0028 Japan
Product Type	LIFEJACKETS
Product Description	Inherently Buoyant Adult Lifejacket – Type: "TK-006A"
Specified Standards	IMO Resolution MSC.81(70) Part 1 as amended by resolution MSC 200(80) and MSC 226(82).

**The attached Design Appraisal Document forms part of this certificate.
This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.**

Date of issue 26 July 2011

Expiry date 25 July 2016

Certificate No. SAS S110083

Signed



Sheet No 1 of 3

Name

L. Thomas
Surveyor to Lloyd's Register EMEA
A Member of the Lloyd's Register Group

Note:

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register of any modification or changes to the equipment in order to obtain a valid certificate.

"Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract."

DESIGN APPRAISAL DOCUMENT

Date 26 July 2011	Quote this reference on all future communications LDSO/TA/SFS/LT
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS S110083

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

EXAMINED DOCUMENTATION

Finished products dimensions and weight, DWG No: TK011810 -A01R3, dated 27-06-2011.
 Lifejacket Donning Instruction

TEST REPORTS

<u>Report Title or Author</u>	<u>Report No.</u>	<u>Date</u>
Test report for foam flotation material	110-21085.a	12-10-2011
Test report for river text fabric	SPC0181943/1004/ issue 3	9th April 2010
Test report for the webbing	091054	03.02.2010
Test report for polyester thread	1010199	31.05.2010
Test report for the buckle	107-38263.b	27-08-2008
Force Technology test report for Adult lifejacket	110-33560.C	20-06-2011
Force Technology test report for Adult lifejacket	111-29012	18-07-2011

CONDITIONS OF CERTIFICATION

Materials	Buoyancy Foam	L-3000 manufactured by Changzhou Sanhe
	Cover Fabric	300 Orange manufactured by Rivertext Technical Fabric
	Front Buckle	ITW NEXUS SS 40

1. The lifejacket is approved only for use by adults of a weight 43 kg or above, each lifejacket is to be marked accordingly.
2. The measured buoyancy of this lifejacket design is 156 N.
3. Each lifejacket shall also be marked with the information required by LSA Code, Regulation I/1.2.2.9 and II/2.2.1.10.
4. An approved lifejacket light meeting the requirements of the LSA Code Regulation II/2.2.3 together with a whistle meeting the requirements of LSA Code regulations II/2.2.1.14 are to be fitted. The light is to be tested and meet the requirements of IMO Resolution MSC.81(70), Part I, 10.3 and 10.4, and its attachment to the Lifejacket confirmed.

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5. If the specified standards are amended during the validity of this certificate, this product type is to be re-approved prior to it being supplied to vessels to which the amended standards apply.
6. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure compliance with SOLAS Regulation III/5.
7. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81(70), Part 2 and each item, batch, or lot be delivered with an LR Certificate of SOLAS Production Testing issued by the attending LR Surveyors following their witness of the tests. This does not preclude any further testing to additional requirements of the Marine Administration of the country where the ship is registered (i.e. the flag state) or those acting on behalf of that Administration.
8. Should a change of Place of Production from that stated below be required i.e. where the stages of manufacture/assembly/testing of this product take place, the new Place of Production is to be advised to us prior to the change taking place. This Certificate will require to be updated for Approval to be maintained.

PLACE OF PRODUCTION

Shanghai Haishi Sports & Life Preservers Co. Ltd.
266 Rui Xiang Lu
Pudong New Area
Shanghai 201209
People's Republic of China

L. Thomas



L. Thomas
Senior Surveyor
Statutory Fire & Safety
London Design Support Office
Lloyd's Register EMEA

Supplementary Type Approval Terms and Conditions

This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) 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 products designed or manufactured otherwise than in strict conformity with the said prototype(s).