

Sherlog

The SDT Sherlog maritime global solutions

Ultrasonics in weather tightness and leak detection

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1. The SDT Sherlog Maritime Global Solutions

For more than 25 years, SDT International has developed state-of-the-art ultrasonic and non-ultrasonic high quality detection and measurement instruments.

Among the many fields of applications, it has built up a recognized large expertise in ultrasonic leak detection as well as tightness testing.

Understanding and meeting the needs and expectations of the many different groups of users is trivial and probably the least you should expect from a manufacturer like SDT International. Another thing is to evolve with those versatile needs, be able to anticipate them and then develop the appropriate dedicated technologies, tools and services.

An important illustration of this corporate attitude is the understanding of the specific needs of the marine industry and particularly the great importance of tightness on board (whether water-, weather- or gas- tightness integrity) and the devastating and costly consequences of undetected leaks or water ingress in cargo holds.

To meet these issues, SDT International has developed specifically a global solution putting together a dedicated line of instruments and services focusing on maritime applications, the SHERLOG line. It combines with a new comprehensive theoretical and practical ultrasonic training in ultrasonics, rules and regulations, hatch cover designs and deficiencies as well as ultrasonic tightness procedures (go to [6. Training & Certification](#))

Successful candidates then receive a Certificate of Qualification in order to certify and qualify surveyors and operators to that end.

Frequent users of the SDT Sherlog program do consider that it probably offers the marine industry the single most efficient and state-of-the art products for a versatile number of maritime applications.

2. What's New?

Flash news:

- **New training program :**
<http://www.sdt.be/12sherlogPDF/training.pdf>
- **Updated list of the marine certified Surveyors / Operators :**
<http://www.sdt.be/pdf/certified.pdf>

3. The SDT Sherlog Product Line

Sherlog:

The flexible multifunctional solution for marine applications

The Sherlog is built around the SDT worldwide used ultrasonic detection capabilities and it features a particularly accurate and sensitive internal airborne ultrasonic sensor.

Numerous onboard and offshore needs such as measuring physical parameters (ultrasounds, audible noise, temperature, rotation and linear speed, flow) are covered.

The Sherlog is ergonomically designed and user-friendly. It is handheld and easily controlled by only eight key touch keys. Its generous Liquid Crystal Display and is protected from harsh handling and environment by a strong extruded aluminium outer shell and "anti-shock" rubber housing.



Easy to use, the Sherlog is "intelligent". It recognises external sensors upon connection and automatically switches to the appropriate parameters and measuring mode.

SDT Sherlog: Why you should be using it

- The only system of its kind to be Type Approved by Class
- Strong, shock resistant for use in harsh maritime conditions
- The only instrument to boast a tamper-proof HCO survey routine, with data logging and data download for enhanced reporting
- All measurements in dB μ V
- Can be used for RoRo and dry dock operations
- Gives indication about compression between compression bar and rubber packing
- The only method that quickly pinpoints small leaks and areas that lack compression
- Allows quick and easy testing without assistance from ship's crew
- Can be used for weathertightness and air/gas tightness
- Can be used in ports forbidding hose testing to avoid pollution washed away from the deck.

Save time and trouble !

- One-man operation
- Can be carried out without interfering with ship operations
- Reduces idle time in port
- Can be carried out in sub-zero temperatures
- Can be used in loaded holds, even with water-sensitive cargoes.

For all these reasons, the SDT Sherlog offers the most complete, dedicated solution for maritime applications.

Who should be using it?

- Classification Societies and P&I Clubs
- Class service suppliers
- Surveyors
- Ship yards and repair yards
- Ship crews.

To receive the new SDT Sherlog 6 page colour folder just contact sherlog@sdt.be

The SDT Sherlog Line

▪ **The SDT Sherlog TA**

Designed to perform non-destructive weather tightness inspections of hatch covers, doors, ramps, ramp covers, windows, bulkheads or any other on-board or offshore applications.

Among its many features the SHERLOG TA offers a large memory capacity to digitally process, display and output data in standard protocol formats.



Moreover, the SHERLOG TA offers a unique software routine –specifically for ultrasonic hatch cover tightness testing - that memorises, logs and downloads to PC all measured data for detailed and accurate reporting.

The SDT SHERLOG TA kit contains:

- 1 Sherlog Ultrasonic Detector with battery and rubber protection
- 1 battery loader for detector's battery; 240V/European plug
- 1 Sherlog 8 multi-setting ultrasonic multi-transmitter with battery and leather case
- 1 spare battery for the multi-transmitter
- 1 battery loader adapter for Sherlog-8
- 1 battery loader for Sherlog-8; 240V/European plug
- 1 820 mm flexible rod with a 14 mm external sensor for the Sherlog detector
- 1 noise isolating headphone set 130 dB
- 1 cable RS232 Stewart - Sub D9 female; L 1,5m (for connection to PC)
- 1 3,5" diskette with software for data transfer to PC.

Miscellaneous:

- 1 Y plug connector
- 1 shoulder straps for Sherlog detector and 1 for the multi-transmitter
- 4 precision indicators for Sherlog detector (threaded tip, rubber tip, tubes)
- 1 screw driver for battery cover of multi-transmitter
- 1 technical and user manual

- 1 Calibration Certificate
- 1 copy of the different Class Type Approvals
- 1 carrying suitcase + foam inlay.

▪ **The SDT SHERLOG S**

Also designed for ultrasonic tightness testing, the SHERLOG S is perfect for routine monitoring and tightness checks when no memorization is required, nor a Type Approved instrument required.

The Sherlog S is equally multifunctional and adapted for many different mechanical applications.

Robust and versatile, it also detects small pressure and vacuum leaks, even in noisy shipyard environments. It is particularly good at trending the condition and the wear-and-tear of rotating machinery components as bearings, gears or couplings –without dismantling them. It excels as well for assessing the condition of pumps, valves, steam traps and turbines.

Last but not least it is a perfectly appropriated instrument for detecting electrical short circuits, sparks or corona discharges.

The Sherlog S kit contains almost the same components as the Sherlog TA, without the memory capacity and survey data logging options.

The SDT SHERLOG S kit contains:

- 1 Sherlog Ultrasonic Detector with battery and rubber protection
- 1 battery loader for detector's battery; 240V/European plug
- 1 Sherlog 8 ultrasonic multi-transmitter with battery and leather case
- 1 battery loader for Sherlog-8; 240V/European plug
- 1 820 mm flexible rod with a 14 mm external sensor for the Sherlog detector
- 1 noise isolating headphone set, 130 dB
- 1 cable RS232 Stewart - Sub D9 female; L 1,5m (for connection to PC)

Miscellaneous:

- 1 shoulder straps for Sherlog detector and 1 for the multi-transmitter
- 4 precision indicators for Sherlog detector (threaded tip, rubber tip, tubes)
- 1 screw driver for battery cover of multi-transmitter
- 1 technical and user manual
- 1 Calibration Certificate
- 1 carrying suitcase + foam inlay.

4. Hatch Cover Tightness Testing

3 steps towards reducing claims

Water-damaged cargo remains a pressing problem. Owners, charterers, P & I Clubs and insurers are faced with several hundred million dollars of water damage claims a year, not counting missed deadlines and serious disruption to client operations.

Now ultrasonic tightness testing can dramatically improve the n° 1 cause for claims each year – simply, accurately and reliably!



1. Nothing works like ultrasonic

Ultrasonic is more than just another form of testing tightness. It offers a complete, global solution with unheard-of accuracy and reliability. Accuracy that has received Classification Society Type Approval.

Hose and chalk tests demonstrate whether or not there is contact between the rubber packing and compression bar but give no indication of the actual compression. Once at sea, it is often too late to see the shortcomings of this method.

Only ultrasonic testing can show you when you have the required or acceptable compression.

2. Ultrasonic testing is custom-made for maritime applications

Nothing beats ultrasonic testing for simplicity and pinpoint accuracy:

- Totally reliable, accurate – and repeatable
- No need for water or for complicated operations
- Ultrasonic testing slashes the time needed to test the condition of hatch covers, RoRo doors, bulkheads or windows.
- Ensures that hatch covers offer true cargo worthiness and prevent water ingress
- Hand-held operation by 1 man.
- Reduces costly idle time in ports
- Easy, fast pre-load inspections.

3. A global solution: instrument, training and certification

The industry recognition is not just for the SDT SHERLOG line. Only Sherlog comes with the SDT-IMCS training programme. Trainee operators are given, as required by Class and the Industry, comprehensive theoretical and on-board practical training in ultrasonics, rules and regulations, hatch cover designs and deficiencies as well as ultrasonic testing procedures.

Successful candidates receive a Certificate of Qualification and are added to the growing list of Certified Surveyors. Significantly, the training programme is approved by Class and accredited by the Nautical Institute. For further details go to [6. Training & certification](#).

So not only is the Sherlog TA a superior testing method, it is also a comprehensive programme that led to a new standard in the marine industry.

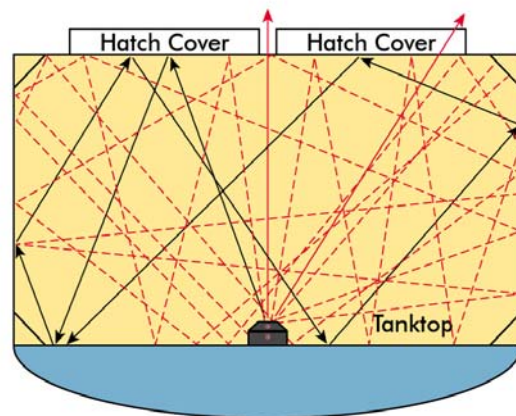
How does ultrasonic testing work?

The principle for ultrasonic testing is remarkably simple. An ultrasonic transmitter is placed in the hold (empty or with cargo) and emits ultrasound waves. The hatch cover is then closed, fully cleated and battened. The surveyor or operator then uses the Sherlog ultrasonic detector to listen from the outside and pick up all "leaking" ultrasonic sounds that pass through the sealing arrangements, vents and/or cracks.

Ultrasonic testing is far more accurate than other testing methods, enabling operators and surveyors to pinpoint leaks that are a problem – or are likely to become one.

When combined with computer systems, ultrasonic testing offers the maritime world a complete tamper-free solution. Surveyed data can be memorised for analysis and the

Data downloaded to PC for fast, reliable and documented reporting.



5. Rules & Regulations

The IACS Unified Requirement U.R.Z17

The International Association of Classification Societies has set the procedure that sets the basic standards for qualifying service suppliers. Firms, surveyors and operators more specifically concerned are those

- Engaged in tightness testing of hatches with ultrasonic equipment
- Engaged in the examination of Ro-Ro ships bow, stern, side and inner doors.

The U.R. Z 17 specifically highlights:

- Training of personnel (§ 4.2.2)
- Personnel records: (§ 4.2.4)
- Operators required qualifications / theoretical and practical onboard training (Annex 1, § 2.2)
- Equipment, which is to be type approved by the Society (Annex 1, § 2.3).

The full details can be found on the www.iacs.org.uk under “Unified Requirements” / “Z: Survey and Certification” / “Z17: Procedural Requirements”

These requirements, rules and procedures are to day largely accepted and applied by the marine industry.

The Class approvals for SHERLOG TA

Following the IACS requirements SDT International had its new Sherlog TA formally Type Approved. Currently it holds Class Approval Certificates from ABS, DNV, Hellenic RS, Lloyd’s RS and Russian MRS. Other similar approvals are in progress. The Sherlog TA is currently the only such equipment for ultrasonic testing that complies fully with Class requirements and to have been granted such Approvals.



Calibration requirements

Classification Societies require the ultrasonic equipment to hold a valid certificate of calibration. This operation is only performed at SDT International plant in Brussels. The issued certificate is valid during two years. At expiry, the instrument is to be re-calibrated by SDT in order to issue a renewed certificate.

6. Training and Certification

It is a recognised need to provide Marine Surveyors as well as maritime concerned professionals with a specific in-depth theoretical and practical training before performing ultrasonic tightness testing of hatches or any onboard device required to be tight.

As tremendous amounts of money are paid every year to compensate wet damage claims, accurately assessing hatch cover tightness has become essential. So Class and most principals now consider training mandatory.

The SDT training course program

SDT International together with Walter Vervloesem, marine surveyor and currently chairman of the Belgian Branch of the Nautical Institute, conceived a completely new training program to fully comply with the Class requirements and the growing needs of the industry.

Accreditation

The SDT-IMCS training course on "Ultrasonic Tightness Testing" as been approved by several Classification Societies and accredited by the Nautical Institute.

Language

The complete training, as well as the CD-Rom syllabus, the documentation and the written examination is in English. All trainees are therefore expected to have a good working knowledge of that language.

The program

It gives surveyors and operators a complete insight of ultrasonic tightness testing. The course covers:

- Basics about ultrasounds
- Using type approved ultrasonic equipment
- Applicable rules, conventions and procedures
- Claims as a result of wetting damage
- Inspection of hatch covers
- Hatch cover vocabulary, design features and frequently found defects
- Types and designs of Ro-Ro equipment
- Different testing methods (advantages and drawbacks)
- Onboard practical ultrasonic tightness test
- Data logging and transfer of surveyed data to PC
- Reporting.

Each trainee exercises and is trained on an individual SHERLOG TA instrument provided by SDT during the session.

The course is concluded by an open-book written examination covering:

- Ultrasounds and testing procedures
- Hatch cover vocabulary
- Hatch cover defects
- Ultrasonic hatch cover inspection.

List of Certified Operators Qualified for Ultrasonic Tightness Testing of Hatches

SDT International SA

<u>Country</u>	<u>City</u>	<u>Company</u>	<u>Contact</u>	<u>E-mail</u>	<u>Certificate nr</u>	<u>Expire date</u>
		MacGREGOR	Richard TINDAL		SDT05030332	01/12/2007
		MacGREGOR	Timothy BELL		SDT05030331	01/12/2007
		MacGREGOR	Scott WARDLE		SDT05030333	01/12/2007
		MacGREGOR	Frederik CARLSSON		SDT05030334	01/12/2007
Bahrain	SITRA	INCHCAPE Shipping Services	Mandeep SINGH WADHWA	mandeep.singh@iss-shipping.com	SDT04040239	27/04/2007
Belgium	Edegem	IMCS	Walter VERVLOESEM	walter@sdt.be	SDT02050145-1	01/09/2008
Belgium	Antwerpen	IMCS Antwerp	Howard VAN DONINCK	imcs@imcs.be	SDT04100271	01/10/2007
Belgium	Stabroek	I.N.S. NV	Rudiger GELPER	ins@ins-survey.com	SDT04100272	01/10/2007
Belgium	Antwerpen	DE MAEYER	Michael DE MAYER	f.demaeyer@pi.be	SDT04030236	01/03/2007
Belgium	Antwerpen	IMCS	Jan RECOUR	imcs@imcs.be	SDT02050164	01/11/2005
Belgium	Antwerpen	IMCS Antwerp	Didier PIETTE	imcs@imcs.be	SDT03010191	01/02/2006
Belgium	Antwerpen	VAN AMEYDE Marine & Industry...	Dirk LEFEVER	dle@ameydemarine.be	SDT03100207	01/11/2006
Belgium	Antwerpen	MacGREGOR	Pierre MEES	pierre.mees@macgregor-anr.com	SDT03010198	01/02/2006
Belgium	Antwerpen	MacGREGOR	Joseph VAN MECHELEN	joseph.van_mechelen@macgregor-anr.com	SDT03010196	01/02/2006
Belgium	Antwerpen	MacGREGOR	Gust VERSMISSEN	gust.versmissen@macgregor-anr.com	SDT03010197	01/02/2006
Belgium	Antwerpen	MacGREGOR (NLD) B.V.	Jan ROEF	jan.roef@macgregor-anr.com	SDT02030129	01/07/2005
Belgium	Deurne	IMCS	Yves BEECKMAN	yb@versateladsl.be	SDT05090473	01/11/2008
Belgium	Antwerp	GERMANISCHER Lloyd	Hans LANTING	gl-antwerp@gl-group.com	SDT05090469	01/11/2008
Belgium	Antwerp	GERMANISCHER Lloyd	Claus HEYVAERTS	gl-antwerp@gl-group.com	SDT05090470	01/11/2008
Brazil	Salvador	NAVUS Marine	Carlos RODAMILANS	navus@navus.com.br	SDT04030235	01/03/2007
Brazil	Rio De Jan...	BRAZIL MARINE SURVEYORS	Marcio Romolo S. CAVINA	marcio.cavina@brazilsurveyors.com.br	SDT05120494	01/01/2009
Brazil	Santos	METALOCK Brasil Ltd.	Ronaldo P. DA FONSECA	ronaldo.fonseca@metalock.com.br	SDT05120495	01/01/2009
Bulgaria	Varna	MTG- Varna PLC	Dobromir DRAGIEV	dobromir_dragiev@abv.bg	SDT04120307	01/12/2007
Bulgaria	Bourgas	KALIMBASSIERIS Maritime	Stanislav P. ZAGORCHEV	kalmar_p@hol.gr	SDT04110298	01/11/2007
Bulgaria	Bourgas	KALIMBASSIERIS Maritime	Yaroslav STOYANOV MLADENOV	kalmar_bs@digicom.bg	SDT04110297	01/11/2007
Bulgaria	Varna	KALIMBASSIERIS Maritime	Ivan PENKOV VASSILEV	kalmar_vn@trada.bg	SDT04110299	01/11/2007
Bulgaria	Varna	ODESSOS Shiprepair Yard	Stanimir YANAKIEV		SDT04120302	01/12/2007
Bulgaria	Varna	ODESSOS Shiprepair Yard	Yordan ZLATEV		SDT04120303	01/12/2007
Bulgaria	Varna	ODESSOS Shiprepair Yard	Ivan TSONEV		SDT04120304	01/12/2007

List of Certified Operators Qualified for Ultrasonic Tightness Testing of Hatches

SDT International SA

<u>Country</u>	<u>City</u>	<u>Company</u>	<u>Contact</u>	<u>E-mail</u>	<u>Certificate nr</u>	<u>Expire date</u>
Bulgaria	Varna	H.H. Brothers Maritime Limited	Veselin PUSHKAROV	christov@vazna.ttm.bg	SDT04120305	01/12/2007
Bulgaria	Varna	ODESSOS Shiprepair Yard	Orlin MARINOV VELIKOV		SDT04120306	01/12/2007
Canada	Dartmouth,...	HAYES STUART Atlantic Inc	John MACLEOD	halifax@hayesstuart.com	SDT04070264	01/07/2007
Canada	Pointe-Clai...	MARITIME AVA Inc	Fred RUSTON	f.ruston@videotron.ca	SDT02050142-1	01/12/2008
Canada	Beaufort-...	HAYES STUART Inc	Richard BRETON	quebec@hayesstuart.com	SDT02050144-1	01/09/2008
Canada	Montreal, ...	HAYES STUART Inc	Pierre TETREAU	montreal@hayesstuart.com	SDT02050143	01/07/2005
China	Shanghai	MacGREGOR	Eldee CAO LI DONG		SDT02120157	01/11/2005
China	Shanghai	MacGREGOR	Frank CHEN		SDT02120158	01/11/2005
China	Shanghai	MacGREGOR	John Z.C. Xu		SDT02120159	01/11/2005
China	Shanghai	MacGREGOR	Richard WANG		SDT04040243	18/08/2006
China	Shanghai	MacGREGOR	Roger ZHANG		SDT04040245	18/08/2006
China	Hong Kong	CARMICHAEL & CLARKE Co, LTD	David A. BOFFEY	carmi@hkstar.com	SDT02050155	01/11/2005
China	Hong Kong	CARMICHAEL & CLARKE Co, LTD	Quincy LLOYD		SDT02050154	01/11/2005
China	Hong Kong	MATTHEWS-DANIEL Int.	Keith C.K. LIN	matdanhk@netvigator.com	SDT02050153	01/11/2005
China	Shanghai	FALCONER BRYAN Pte Ltd	Xiao ZHONG JIN	xiao@falconer-bryan.com.cn	SDT05020310	01/02/2008
China	Wanchai-...	Matthews-Daniel International (H...	Keith C.K. Lin	matdanhk@netvigator.com	SDT02050153	01/11/2005
China	Shanghai	Q-PRO TECHNICAL SERVICES (...	Fidel YU	fidelyu@qpro-china.com	SDT06010505	01/02/2009
China	Shanghai	SHANGHAI LEADER MARINE CO...	Kyle WEI ZHANG	zhang@leadermarine.com	SDT06010506	01/02/2009
China	Dalian	CARICH MARINE ENGINEERING (...	Yang DONGYONG	yangdongyong@carich.cn	SDT06010508	01/01/2009
China	Shanghai	J & A Marine Consultant Ltd.	Daniel WANG	info@jamarine.com	SDT06010498	01/02/2009
China	Shanghai	Q.PRO TECHNICAL SERVICE CO.	Charles WU	charleswu@qpro-china.com	SDT06010504	01/02/2009
China	Tianjin	BEACON MARINE CONSULTANT...	Lin HONG	bmco@china.com	SDT06010496	01/02/2009
China	Shanghai	MacGREGOR(Shanghai)	Steven MA JIANG HU	steven.ma@macgregor-group.com	SDT06010500	01/02/2009
China	Shanghai	MacGREGOR(Shanghai)	Fred XU JUN	fred.xu@macgregor-group.com	SDT06010501	01/02/2009
China	Shanghai	MacGREGOR(Shanghai)	Vincent ZHU	vincent.zhu@macgregor-group.com	SDT06010503	01/02/2009
China	Shanghai	MacGREGOR(Shanghai)	William XU	william.xu@macgregor-group.com	SDT06010502	01/02/2009
China	Tianjin	BEACON MARINE CONSULTANT...	Wu Jian FENG		SDT06010497	01/02/2009
China	Shanghai	J & A Marine Consultant Ltd.	Sun RONG	info@jamarine.com	SDT06010499	01/02/2009
Croatia	Rijeka	MacGREGOR	Neven COP		SDT04060257	27/05/2007

List of Certified Operators Qualified for Ultrasonic Tightness Testing of Hatches

SDT International SA

<u>Country</u>	<u>City</u>	<u>Company</u>	<u>Contact</u>	<u>E-mail</u>	<u>Certificate nr</u>	<u>Expire date</u>
Croatia	Rijeka	IMCS-Adriatic Ltd	Makso TIJAN	imcs-jadran1@ri.htnet.hr	SDT05090472	01/11/2008
Croatia	Kostrena-R...	MacGREGOR	Miroslav RUDAK	miroslav.rudak@macgregor-rjk.com	SDT02050170	01/07/2005
Croatia		MacGREGOR	Eduard HIBSER		SDT04040247	30/11/2006
Denmark	Copenhagen	MacGREGOR	Bjarne RASMUSSEN	bjarne.rasmussen@macgregor-cph.com	SDT02040130-1	01/12/2008
Denmark	Copenhagen	CLIPPER ELITE Carriers A/S	Henning PEDERSEN	sdrhp@hotmail.com	SDT06030518	01/04/2009
Egypt	Alexandria...	GHERIANY Engineering Services	Abd El Aziz ELGHERIANY	gheriany@elgheriany.com.eg	SDT03010204	01/07/2006
Egypt	Alexandria	MEGASURV	Taha MOHAMED	megasurv@megasurv-alex.com	SDT06030526	01/04/2009
Estonia	Tallinn	MacGREGOR	Marko MARIPUU	marko.maripuu@macgregor-group.com	SDT04070265	01/07/2007
Estonia	Viimsivald,...	BSI Inspectorate Estonia AS	Valery KULIK	dryops@bsi-inspectorate.ee	SDT02120179	01/01/2006
Estonia	Viimsivald,...	BSI Inspectorate Estonia AS	Viktor RUTKOVSKY	rutkovsky@bsi-inspectorate.ee	SDT02120180	01/01/2006
Estonia	Tallinn	SGS Estonia	Yuri PSHENICHNIY	yuri.pshenichniy@sgs.com	SDT02120189-1	01/01/2009
Estonia	Talinn	IMCS Eesti AS	Sergei IVANTSOV	info@imcs.ee	SDT02030120-1	01/09/2008
Estonia	Talinn	IMCS Eesti AS	Igor KUROCHKA	info@imcs.ee	SDT02030121-1	01/09/2008
Estonia	Talinn	IMCS Eesti AS	Sergei LUKJANOV	info@imcs.ee	SDT02030122-1	01/09/2008
Estonia	Tallinn	TEHONOMET BSR Group	Yuri YERYOMIN	juta7@hotmail.ee	SDT02120185	01/01/2006
Estonia	Tallinn	LARS KROGIUS BALTIC LTD.	Kaupo PÜVI	kaupo.pyvi@krogius.com	SDT05070456	01/07/2008
Finland	Kaarina	MacGREGOR	Hakala PASI		SDT04070267	01/07/2007
Finland	Kaarina	MacGREGOR	Kimmo HUHTALA	kimmo.huhtala@macgregor-group.com	SDT04070266	01/07/2007
Finland	Helsinki	INSPECTA Oy	Jari KOJO	jari.kojo@inspecta.fi	SDT02120187	01/01/2006
Finland	Turku	INSPECTA Oy	Jukka TSOKKINEN	jukka.tsokkinen@inspecta.fi	SDT02120188	01/01/2006
Finland	Kaarina	MacGREGOR	Chris VAN DE VIJVER	chris.vandevijver@macgregor-group.com	SDT03010199	01/02/2006
Finland	Kaarina	MacGREGOR	Pasi HEINALUOTO	pasi.heinaluoto@macgregor-group.com	SDT02050172	01/12/2005
Finland	Rauma	AB Oceanum Ltd	Tatu PEUSSA	tatu.peussa@dnainternet.net	SDT04110290	01/11/2007
Finland	Turku	AB Oceanum Ltd	Ari SAARI	ari.saari@oceanum.fi	SDT04110289	01/11/2007
Finland	Kaarina	MacGREGOR (FIN) Oy	Pasi Heinäluoto	pasi.heinaluoto@macgregor-group.com	SDT02050172	01/12/2005
Finland	Kouvola	UPM-KYMMENE SEAWAYS	Ville HUOVILA	ville.huovila@upm-kymmene.com	SDT06020511	01/03/2009
France	Fos Sur Mer	HYDROMAR SURVEYS	Bertrand CHASSAGNE	hymarsud@wanadoo.fr	SDT05090471	01/11/2008
France	Le Havre	MacGREGOR	Christophe LE BRETON		SDT04060255	27/05/2007
France	Fos sur Mer	HYDROMAR Surveys	Hubert THOMMASSET	hymarsud@wanadoo.fr	SDT03100213	01/11/2006

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France	Marseille	MacGREGOR	Philippe DUQUENNOY	philippe.duquennoy@macgregor-group.com	SDT05110493	01/12/2008
Germany	Hamburg	MacGREGOR	Mark HALL	mark.hall@macgregor-ham.com	SDT02040132-1	01/12/2008
Germany	Hamburg	MacGREGOR	Michael MINDING	michael.minding@macgregor-ham.com	SDT02040131	01/11/2005
Germany	Hamburg	MacGREGOR	Uwe BLEECKEN	uwe.bleecken@macgregor-ham.com	SDT02050174	01/01/2006
Germany	Bremerhaven	MacGREGOR	André POPPE		SDT04040241	05/03/2006
Germany	Cuxhaven	IMCS Germany	Burkhard RASCH	imcs.ge.b.rasch@t-online.de	SDT03010192	01/02/2006
Germany	Hamburg	VEGA-Reederei Friedrich Dauber...	Wolfram SABBAN	wsabban@vega-reederei.de	SDT05030329	01/03/2008
Germany	Bremen	TTS Ships Equipment GmbH	Ralf VOLLMER	Ralf.Vollmer@TTS-SE.de	SDT05030322	01/03/2008
Germany	Emden	CASSENS WERFT GmbH	Horst ALBÜSCHAT	albuschat@cassens-werft.de	SDT05030325	01/03/2008
Germany	Bremen	TTS Ships Equipment GmbH	Manfred BEHRENS	service@tts-se.de	SDT05030320	01/03/2008
Germany	Bremen	TTS Ships Equipment GmbH	Arno J. LAFFRENZEN	service@tts-se.de	SDT05030318	01/03/2008
Germany	Bremen	TTS Ships Equipment GmbH	Heinz SCHWEER	service@tts-se.de	SDT05030319	01/03/2008
Germany	Bremen	TTS Ships Equipment GmbH	Rainer BUSING	rainer.busing@tts-se.de	SDT05030321	01/03/2008
Germany	Leer	PHOENIX REEDEREI	Berthold STEINJAN	inspection@phoenix-reederei.de	SDT05030323	01/03/2008
Germany	Hamburg	VEGA-Reederei Friedrich Dauber...	Birger RUNGE	BRunge@vega-reederei.de	SDT05030327	01/03/2008
Germany	Hamburg	MacGREGOR (DEU) GmbH	Edward DE BROE	edward.debroe@macgregor-ham.com	SDT02050146-1	01/12/2008
Germany	Leer	SEC GmbH	Joachim TAUTE	SEC-Leer@t-online.de	SDT05030328	01/03/2008
Germany	HAMBURG	GERMANISCHER LLOYD AG	Volkmar HUXOLL	volkmar.huxoll@gl-group.com	SDT06020512	01/03/2009
Germany	Bremen	TTS SHIPS EQUIPMENT GMBH	Uwe ROLOF	uwe.rolof@tts-se.de	SDT06020514	01/03/2009
Greece	Piraeus	HELLAS MARINE Services Ltd.	Matthijs Hendrik POST	tech@hellasmarine.gr	SDT04100268	01/10/2007
Greece	Athens	NDT TECHNOLOGY	Athanassios GKIOKAS	ndt@ndt.gr	SDT04100277	01/10/2007
Greece	Piraeus	KALIMBASSIERIS Maritime	Antonios KALMOUKIS	a.kalmoukis@kalimbassieris.com	SDT04110301	01/11/2007
Greece	Piraeus	ARS CO.	George RAPITIS	arsco@e-free.com	SDT04040240	27/04/2007
Greece	Piraeus-At...	SPECTRUM Labs	Ioannis DIMOULIS	dimoulis@in.gr	SDT04110294	01/11/2007
Greece	Papagos	C.V. MARKOPOULIOTIS & ASS...	Costas MARKOPOULIOTIS	markopouliotis@tee.gr	SDT05110482	01/12/2008
Greece	Piraeus	EVDEMON & PARTNERS	Athanasios TRIMIS	evdemon@hol.gr	SDT05110487	01/12/2008
Greece	Piraeus	EVDEMON & PARTNERS	Nikolaos DRIKOS	nikolaos.drikos@evdemon.gr	SDT05110485	01/12/2008
Greece	Piraeus	EVDEMON & PARTNERS	Nikolas RALLATOS	nikolas.rallatos@evdemon.gr	SDT05110486	01/12/2008
Hong Kong	Wanchai	WEST OF ENGLAND Ship Owne...	Joe YU	joe.yu@westpandi.com	SDT02050149	01/11/2005

List of Certified Operators Qualified for Ultrasonic Tightness Testing of Hatches

SDT International SA

<u>Country</u>	<u>City</u>	<u>Company</u>	<u>Contact</u>	<u>E-mail</u>	<u>Certificate nr</u>	<u>Expire date</u>
India	CHENNAI	J B BODA SURVEYORS PVT LTD	Ramananand DHARESHWAR	rd@jbbodamail.com	SDT04060251	24/05/2007
India	WILLINGD...	J B BODA SURVEYORS PVT LTD	Ravi NARAYANAN	jbbkochi@jbbodamail.com	SDT04060253	24/05/2007
Indonesia	Jakarta	FALCONER BRYAN PTE LTD	Robert T. MALADA	surveys@falconer-bryan.co.id	SDT05020314	01/02/2008
Italy	Taranto	STIM Consult Engineering	Vincenzo RUSCIANO	rusciano@stimconsult.com	SDT03060206	01/07/2006
Korea South	Pusan	MacGREGOR (KOR) Ltd	Dae-Sung Choi		SDT02050171	01/12/2005
Kuwait	Safat	BURISLEE SHIPPING SERVICES	Jalil UR RAHMAN	indsurj@hotmail.com	SDT06030521	01/04/2009
Latvia	Liepaja	ALEX STEWAERT Int. Corp.	Maxim KRONBERG	survey@liepajaport.lv	SDT06020513	01/03/2009
Latvia	Ventspils	BSI Inspectorate Latvia Ltd	Andrey SHUNEYKO	a.shuneyko@bsi-inspectorate.lv	SDT02120181	01/01/2006
Latvia	Riga	ASK Enterprise	Sergey TIRSHA	ask@mailbox.riga.lv	SDT02030119	01/07/2005
Latvia	Riga	BALTIC Kontor Ltd.	Dmitrijs ENGELSONS	deng@bk.lv	SDT04110293	01/1/2007
Latvia	Ventspils	BSI Inspectorate Latvia Ltd	Andrey KITAEV	ops.ventspils@bsi-inspectorate.lv	SDT04110292	01/11/2007
Latvia	Liepaja	SGS Latvia Ltd	Alexander GULEGA	alexander_gulega@sgs.com	SDT04110291	01/11/2007
Latvia	Riga	LARS KROGIUS BALTIC LTD.	Andrei TATARINOV	andrei.tatarinov@krogius.lv	SDT05070459	01/07/2008
Lithuania	Klaipeda	BSI Inspectorate Klaipeda UAB	Konstantin BASKAYEV	klaipeda@bsi-inspectorate.lt	SDT02120178	01/01/2006
Lithuania	Klaipeda	BSI Inspectorate Klaipedia	Aleksandr RUKOMOINIKOV	alex@bsi-inspectorate.lt	SDT04030232	01/03/2007
Lithuania	Klaipeda	BSI Inspectorate Klaipedia	Remigijus KURSYS	klaipeda@bsi-inspectorate.lt	SDT04030231	01/03/2007
Malaysia	Klang;Sela...	TREM Maritime Sdn. Bhd.	Ervin John FERNANDEZ	captervin@trem-maritime.com	SDT02050150	01/11/2005
Netherlands	Rotterdam	MacGREGOR	Kees ROELVINK		SDT04060259	27/05/2007
Netherlands	Sluiskil	YARA	Jan SCHEELE	jan.scheele@yara.com	SDT04100285	01/10/2007
Netherlands	Sluiskil	YARA	Ronald RUBEN	ronald.ruben@yara.com	SDT04100286	01/10/2007
Netherlands	Sluiskil	YARA	Alexander KAASJAGER	alexander.kaasjager@yara.com	SDT04100287	01/10/2007
Netherlands	Zwaag	J.M.C.E BV	Ron JONKER	info@jmce.NL	SDT04100269	01/10/2007
Netherlands	Rotterdam	VAN AMEYDE Marine B.V.	Jeroen EBBELING	jebbeling@ameydemarine.nl	SDT03100208	01/11/2006
Netherlands	Rotterdam	J.G. Schoo & Co	Kees-Jaap BUDDING	office@schooco.nl	SDT03100212	01/11/2006
Netherlands	Rotterdam	J.G. Schoo & Co	Peter M. HOOGERVORST	office@schooco.nl	SDT03010195	01/02/2006
Netherlands	Hoogezand	COOPS & NIEBORG B.V.	Anton DOORBOS	aftersales@coops-nieborg.nl	SDT02050162-1	01/04/2009
Netherlands	Hoogezand	COOPS & NIEBORG B.V.	Richard KNAPPER	aftersales@coops-nieborg.nl	SDT02050163-1	01/04/2009
Netherlands	Hoogezand	COOPS & NIEBORG B.V.	Paulus Joh. VERSTAPPEN	aftersales@coops-nieborg.nl	SDT02050161	01/11/2005
Netherlands	Sluiskil	YARA	Chris CASTELIJN	Anne-Marie.Dehaeze@yara.com	SDT05090480	01/11/2008

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<u>Country</u>	<u>City</u>	<u>Company</u>	<u>Contact</u>	<u>E-mail</u>	<u>Certificate nr</u>	<u>Expire date</u>
Netherlands	Sluiskil	YARA	Marc BUKKENS	Anne-Marie.Dehaeze@yara.com	SDT05090481	01/11/2008
Netherlands	Rotterdam	VAN AMEYDE MARINE ROTTER...	Peter COPPELMANS	coppelmans@ameydemarine.nl	SDT05090478	01/11/2008
Netherlands	Wanneper...	EMAD BV	F.G. DAM	info@emad.nl	SDT06020509	01/03/2009
Netherlands	Rotterdam	VINKE & Co CEMS	Cindy BUITENDIJK	info@schooco.nl	SDT05090479	01/11/2008
Netherlands	Wanneper...	EMAD BV	T.J. DE JONG	TjallingdeJong@wanadoo.nl	SDT06020510	01/03/2009
New Zealand	PUKEKOHE	BLUE C Engineering Services Ltd	David BOOTH	bluec@ps.gen.nz	SDT05020312	01/02/2008
Norway	Oslo	MacGREGOR	Finn SJOLUND		SDT02040135	01/11/2005
Norway	Bergen	MacGREGOR	Arild FJELLHAUG	arild.fjellhaug@macgregor-osl.com	SDT02030128	01/07/2005
Norway	Bergen	MacGREGOR	Michael TROYE	michael.troye@macgregor-osl.com	SDT02040136-1	01/04/2009
Norway	Oslo	MacGREGOR	Claus R. BJERGA	Bjerga@MacGregor-group.com	SDT02040133-1	01/12/2008
Norway		MacGREGOR	Kjetil LJONES MAGE		SDT04040242	05/03/2006
Norway	MO I RANA	RANA INDUSTRI TERMINAL	Leif Inge SKOGSETH	leif.inge.skogseth@mip.no	SDT05030324	01/03/2008
Norway	Bergen	FJELD CONSULTANT AS	Christer G. FJELD	christer.fjeld@fjeld-consultant.no	SDT05090468	01/11/2008
Poland	Szczecin	LBK SERVICES Ltd	Jacek Tomasz NASTALCZYK	TECHJACK@LOAD-MASTER.COM	SDT04100276	01/10/2007
Poland	Szczecin	EUROCARGO Survey Co.Ltd	Piotr PLUCIENNIK	ecs@eurocargosurvey.com	SDT04030234	01/03/2007
Poland	Szczecin	EUROCARGO Survey Co.Ltd	Krzysztof KOBYLKA	ecs@eurocargosurvey.com	SDT02120182-1	01/01/2009
Poland	Gdansk	BMS-Marine Survey	Zbigniew BARANSKI	bms@onet.pl	SDT02120177	01/01/2006
Poland	Sopot	SULNAVE	Pawel GURNIAC	sulnaveg@gdansk.sprint.pl	SDT02120190	01/01/2006
Poland	Gdynia	MacGREGOR	Wojciech KORZENIEWSKI	wojciech.korzeniewski@macgregor-group.com	SDT05110492	01/12/2008
Poland	Sopot	SULNAVE	Marian SZYMANSKI	sulnaveg@gdansk.sprint.pl	SDT06020515	01/03/2009
Portugal	Alcoitao	SCUA South Europe Lda	Nuno QUITERIA	nuno.queria@scualisbonpt.com	SDT05110490	01/12/2008
Qatar	Doha	INTERTEK CALEB BRETT	Gilberto FERNANDO	gil.fernando@intertek.com	SDT05040445	01/04/2008
Romania	BUCHARE...	INTERSERVICES	Gabriel TUDORACHE	office@mancas.ro	SDT04060252	24/05/2007
Romania	BUCHARE...	INTERSERVICES	Spiridon TIMOFTE	office@mancas.ro	SDT04060254	24/05/2007
Romania	Constantza	KALIMBASSIERIS Maritime Co	Valeriu BANICA	kalmar_cz@gmb.ro	SDT02040138	01/07/2005
Romania	Constantza	KALIMBASSIERIS Maritime	Marian CHIPARA	kalmar_cz@gmb.ro	SDT02040137	01/07/2005
Romania	Constantza	KALIMBASSIERIS Maritime	Victor PAUN	kalmar_cz@gmb.ro	SDT02040139	01/07/2005
Romania	Galati	SAIPEM S.p.A ITALY	Moni IVASC	ivascm@yahoo.com	SDT03010203-1	01/04/2009
Romania	Constantza	KALIMBASSIERIS Maritime	Cristian CIOCAN	ciocan-75@yahoo.com	SDT04110295	01/11/2007

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<u>Country</u>	<u>City</u>	<u>Company</u>	<u>Contact</u>	<u>E-mail</u>	<u>Certificate nr</u>	<u>Expire date</u>
Romania	Constantza	KALIMBASSIERIS Maritime	Luciano-Nicolae COTOCEA	constantza@kalimbassieris.com	SDT04100288	01/11/2007
Romania	Constantza	KALIMBASSIERIS Maritime	Liviu RADU	constantza@kalimbassieris.com	SDT04110296	01/11/2007
Romania	Constantza	KALIMBASSIERIS Maritime	Andrei CRISTIAN	kalmar_cz@gmb.ro	SDT04110300	01/11/2007
Romania	BUCHARE...	INTERSERVICES S.A.	Laurentiu BADILA	office@mancas.ro	SDT05110488	01/12/2008
Romania	Bucharest	INTERSERVICES S.A.	Gabriel CIUTU	office@mancas.ro	SDT05110489	01/12/2008
Romania	Galati	DAMEN SHIPYARD GALATI	Cezar Petru ARDELEANU BLAGA	adeleanu@sng.ro	SDT05110483	01/12/2008
Romania	Galati	DAMEN SHIPYARD GALATI	Constantin POPA	ctc@sng.ro	SDT05110484	01/12/2008
Russia	Novorossiysk	MARINEX-ILCS LTD.	Yuri MIKHEEV	marinex-ilcs@nvr.ru	SDT05070453	01/07/2008
Russia	NovorOSS...	BSI INSPECTORATE	Igor DOKUDOVSIIY	inspectdry@rosinsp.ru	SDT05070448	01/07/2008
Russia	Nakhodka	SHA Nakhodka Co. Ltd.	Yury PRIB	sha@nhk.infosys.ru	SDT04120308	01/12/2007
Russia	St. Peters...	MacGREGOR	Nicolay ANTOSHKIN		SDT04100278	01/10/2007
Russia	St. Peters...	MacGREGOR	Valery ZHURAVLEV		SDT04100279	01/10/2007
Russia	St. Peters...	MacGREGOR	Alexander SHILVAN		SDT04100280	01/10/2007
Russia	St. Peters...	MacGREGOR	Igor KANTSIBER		SDT04100281	01/10/2007
Russia	St. Peters...	MacGREGOR	Igor NIZHNIKOV		SDT04100282	01/10/2007
Russia	St. Peters...	MacGREGOR	Sviatoslav CHETYRKIN		SDT04100283	01/10/2007
Russia	St. Peters...	MacGREGOR	Alexander LOPATIN		SDT04100284	01/10/2007
Russia	St Petersburg	BUREAU VOSS Ltd	Valery OSSIPOV	bureau-voss@peterlink.ru	SDT02020109	01/07/2005
Russia	Cherepovets	TCI	Andrey KASILO	bob.jorens@tcibrussels.be	SDT02020102	01/07/2005
Russia	Cherepovets	TCI	Oleg TESTOV	bob.jorens@tcibrussels.be	SDT02020104	01/07/2005
Russia	St Petersburg	MARINEX-ITS Ltd	George OSSIPOV	g-ossipov@marinex-surveys.spb.ru	SDT02020116	01/07/2005
Russia	Murmansk	PORTSIDE TERMINAL co.Ltd	Viktor BLINICHKIN	pst@joylink.ru	SDT02020105	01/07/2005
Russia	St.Petersburg	EUROGAL / GSL	Andrey MAKAROV	gsl@infopro.spb.ru	SDT02020111	01/07/2005
Russia	Novorissiysk	MARINEX-ITS	Evgeny V. KURGANSKY	marinex@nvrsk.net	SDT02020114	01/07/2005
Russia	St.Petersburg	IMCS-St.Petersburg	Alexander VOLKOV	imcs-sp@qhome.ru	SDT02120186	01/01/2006
Russia	St.Petersburg	BSI Inspectorate St. Petersburg	Alexey ZAZHIGIN	inspectorate_dry@mail.seanet.ru	SDT04030233	01/03/2007
Russia	St Petersburg	MARINEX-ITS	Viktor ZHURAVSKY	vzh@ilcs.ru	SDT02020112	01/07/2005
Russia	St Petersburg	TCI	Dmitriy GOLVIKH	pt@mail.wplus.net	SDT02020106-1	01/09/2008
Russia	St Petersburg	TCI	Valery IVANOV	pt@mail.wplus.net	SDT02020103	01/07/2005

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<u>Country</u>	<u>City</u>	<u>Company</u>	<u>Contact</u>	<u>E-mail</u>	<u>Certificate nr</u>	<u>Expire date</u>
Russia	Kaliningrad	TCI	Dmitry NIKITIN	tcikgd@gazinter.net	SDT02020108	01/07/2005
Russia	Kaliningrad	TCI	Alexander I. PAVLENKO	tcikgd@gazinter.net	SDT02020107	01/07/2005
Russia	St.Petersburg	SGS Vostok Ltd	Mikhail DROZDOV	Mikhail_Drozdoz@SGS.com	SDT02120183	01/01/2006
Russia	St.Petersburg	SGS Vostok Ltd	Igor SAPRIN	Igor_Saprin@SGS.com	SDT02120184	01/01/2006
Russia	Moscow	MARINEX-ITS	Oleg DANILOV	o-danilov@marinex.co.ru	SDT02020115	01/07/2005
Russia	StPetersburg	IMCS-St Petersburg	Gani VASIPOV	imcs-sp@qhome.ru	SDT02020101	01/07/2005
Russia	St.Petersburg	IMCS-St Petersburg	Alexander SELEZNEV	imcs-sp@qhome.ru	SDT02020110	01/07/2005
Russia	Valdivostok	MARINEX-ILCS	Valery B. POUZKO	marinex@online.marine.su	SDT02020113	01/07/2005
Russia	St.Petersburg	SGS Vostok Ltd	Yuri SKRYABIN	yuri.skryabin@sgs.com	SDT05070457	01/07/2008
Russia	St.Petersburg	VAARA&PARTNERS	German SURKIS	german@vaara-partners.spb.ru	SDT05070458	01/07/2008
Russia	St.Petersburg	TCI	Yuriy DOMNIN	tci-sp@mail.wplus.net	SDT05070449	01/07/2008
Russia	St.Petersburg	TCI	Georgy Y. BABUKHADIA	pt@mail.wplus.net	SDT05070446	01/07/2008
Russia	St.Petersburg	IMCS-St Petersburg	Dmitriy TYURIN	imcs-sp@qhome.ru	SDT05070460	01/07/2008
Russia	Murmansk	BUREAU OF INDEPENDENT SUR...	Roman SOKOLOV	survey@bis-murmansk.com	SDT06020517	01/03/2009
S.R.Vietnam	Vung Tau ...	MATTHEWS-DANIEL Int.	Ong TECK CHENG	ongtc@hcm.vnn.vn	SDT05020315	01/02/2008
S.R.Vietnam	Vung Tau	MATTHEWS-DANIEL Int.	Don M. RANASINGHE	matdanvt@hcm.vnn.vn	SDT02050151	01/11/2005
Singapore	Singapore	MATTHEWS-DANIEL Int.	Mohd Amin BIN AHMAD	mohdamin@matdam.com	SDT04020229	01/02/2007
Singapore	Singapore	MARITIME CIAIMS & SERVICES P...	Richard LAMBLE	richard.lamble@marclaim.com	SDT04020227	01/02/2007
Singapore	Singapore	MATTHEWS-DANIEL Int.	Azman SALLEH	azmansalleh@matdan.com.sg	SDT04020228	01/02/2007
Singapore	Singapore	MATTHEWS-DANIEL Int.	Malvinder J.S. GIL	mgill@matdan.com.sg	SDT02050152	01/11/2005
Singapore	Singapore	MARITIME CIAIMS & SERVICES P...	Richard HOWE	marclaim@singnet.com.sg	SDT02050147	01/11/2005
Singapore	Singapore	MARITIME CIAIMS & SERVICES P...	Mohd IZHAR	mohd.izhar@marclaim.com	SDT02050148	01/11/2005
Singapore	Singapore	MATTHEWS-DANIEL Int.	Dan LIM	danlim@matdan.com.sg	SDT05020311	01/02/2008
Singapore	Singapore	SHIPSCAN MARINE Pte Ltd	Charles ONG YAO CHONG	shipscan@pacific.net.sg	SDT05020309	01/02/2008
Singapore	Singapore	MARITIME CLAIMS & SERVICES ...	Syed Farhat HUSSAIN	syed.hussain@marclaim.com	SDT05020313	01/02/2008
Singapore	Singapore	MATTHEWS-DANIEL Int.	Bob T. NORAZMAN	bobnorazman@matdan.com.sg	SDT05020317	01/02/2008
Singapore	Singapore	UNIVERSAL MARINE SURVEYIN...	Nandprasad SHIWSAAKAR	nshankar@pacific.net.sg	SDT06010507	01/02/2009
Slovenia	KOPER	ADRIA CONTROL d.o.o.	Vojko PIPAN	acontrol.survey@siol.net	SDT04060250	24/05/2007
South Africa	Durban	ULTRASCAN INSPECTION CC	Paul CASSELLS	paul@ultrascan.co.za	SDT05080461	01/09/2008

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<u>Country</u>	<u>City</u>	<u>Company</u>	<u>Contact</u>	<u>E-mail</u>	<u>Certificate nr</u>	<u>Expire date</u>
South Africa	Durban	GERMANISCHER LLOYD	Gavin FYNN	fy@gl-group.com	SDT05080464	01/09/2008
South Africa	Durban	ELGIN BROWN HAMER	Errol BARLOW		SDT05080463	01/09/2008
South Africa	Durban	ELGIN BROWN HAMER	Hilton André PHILLIPS	philfam@mweb.co.za	SDT05080462	01/09/2008
South Africa	Durban	GERMANISCHER LLOYD	Hans-Dieter BELTSCHANY	belt@gl-group.com	SDT05040336	01/04/2008
South Africa	Kirstenhof	GERMANISCHER LLOYD	Paul Adrian KILBEY	kilb@gl-group.com	SDT05040339	01/04/2008
South Africa	Port Elizabeth	HELLENIC SHIPPING SERVICES	Dimitrios STAMATOPOULOS	hellenic@emirates.net.ae	SDT05040442	01/04/2008
South Africa	Durban	GERMANISCHER LLOYD	Garry CRABTREE	garry.crabtree@gl-group.com	SDT05080465	01/09/2008
South Africa	Durban	GERMANISCHER LLOYD	Brian BRITAIN		SDT05080466	01/09/2008
South Africa	Durban	GERMANISCHER LLOYD	Mark TOMLINSON	gl-durban@gl-group.com	SDT05080467	01/09/2008
South Korea	Pusan	MacGREGOR	Dae-Sung CHOI		SDT02050171	01/12/2005
Spain	Pontejos (...)	INCASUR/IMCS Spain	Francis DE LAUWER	INCASUR@terra.es	SDT04060249	24/05/2007
Spain	Vizcaya	MacGREGOR	Ernesto BOADO	ernesto.boado@macgregor-group.com	SDT02030127	01/07/2005
Sweden	Goteborg	TTS Ships Equipment AB	Ann-Margreth LARSSON	Ann-Margreth.Larsson@tts-se.se	SDT05090476	01/11/2008
Sweden	Goteborg	TTS Ships Equipment AB	Anders Andersson	anders.andersson@tts-se.se	SDT04070260	01/07/2007
Sweden	Viken	DAMCO Survey AB	Rolf LJUNGGREN	damco@damco.se	SDT04030230	01/03/2007
Sweden	Gothenburg	MacGREGOR	Hans NIEMANTSVERDRIET	hans.niemantsverdriet@macgregor-rtm.com	SDT02030126	01/07/2005
Sweden	Gothenburg	MacGREGOR	Magnus GORANSSON	magnus.goransson@macgregor-roro.com	SDT02030124	01/07/2005
Sweden	Gothenburg	MacGREGOR	Kent OLOFSSON	kent.olofsson@macgregor-roro.com	SDT02030125	01/07/2005
Sweden	Goteborg	TTS Ships Equipment AB	Tommy FABIJANOVIC	tommy.fabijanovic@tts-se.se	SDT05090477	01/11/2008
Sweden	Gothenburg	TTS SHIPS EQUIPMENT AB	Torbjorn WILLAS	torbjorn.willas@tts-se.se	SDT06020516	01/03/2009
TRINIDAD W.I.	Petit Valley	TAYLOR Engineering Associates...	Paul TAYLOR	tayeng@trinidad.net	SDT04120216	01/01/2007
Turkey	IZMIR	OMUR Marine Ltd.	Haluk OZORTEN	h.ozerten@omurmarineltd.com	SDT05030330	01/03/2008
Turkey	Istanbul	DELTA GEMI Donatim Ltd.STI	Baris ÖZENC	ozenc@deltamail.net	SDT03060205	01/07/2006
Turkey	Istanbul	ARTI INTERNATIONAL COMPAN...	Sahin MENGI	sahin@artigozetim.com	SDT05070452	01/07/2008
Turkye	Uskudar-Is...	ITS Topaz Marine Survey & Con...	Cuneyt DIN	info@topazmarine.com	SDT02050165	01/11/2005
Turkye	Uskudar-Is...	ITS Topaz Marine Survey & Con...	Remzi TOYRAN	info@topazmarine.com	SDT02050166	01/11/2005
Turkye	Istanbul	ARICAN Marine Survey Bureau	Ihlan ARICAN	iarican@superonmine.com	SDT02050167	01/11/2005
Ukraine	Odessa	SGS UKRAINE	Andrey PRONIN	eugene.komrakov@sgs.com	SDT05070455	01/07/2008
Ukraine	KERCH	SGS UKRAINE	Dmitriy KHARMYSHEV	uakertch@sgs.com	SDT05070450	01/07/2008

List of Certified Operators Qualified for Ultrasonic Tightness Testing of Hatches

SDT International SA

<u>Country</u>	<u>City</u>	<u>Company</u>	<u>Contact</u>	<u>E-mail</u>	<u>Certificate nr</u>	<u>Expire date</u>
Ukraine	Odessa	DPS Marinex	Arthur PRISCHEV	arthur.prischev@marinex.odessa.ua	SDT02020117-1	01/09/2008
Ukraine	Odessa	DPS Marinex	Viktor PROKHOROV	its@marinex.odessa.ua	SDT02020118-1	01/09/2008
Ukraine	Odessa	IMCS Black Sea Ltd	Vladyslav DZHAGAYEV	imcs@paco.net	SDT02050168	01/11/2005
Ukraine	Odessa	DENEb Survey Services	Andrey NAVOLOTSKY	surveyor@deneb.com.ua	SDT03010201	01/07/2006
Ukraine	Mariupol	C.I.S. Marine Surveyors Ltd	Igor FILATOV	cis@mar.com.ua	SDT03010202	01/07/2006
Ukraine	Odessa	UMCS Co Ltd	Sergey ZHEL'YAZKOV	company@umcs.com.ua	SDT03010200	01/07/2006
Ukraine	Odessa	DPS Marinex	Vladimir DEMIDOV	dps@marinex.odessa.ua	SDT05070447	01/07/2008
Ukraine	Ilyichevsk	VITSHIP LTD	Gennadiy KHAUSTOV	vitship@ilyichevsk.net	SDT05070451	01/07/2008
United Arab Emirates	Dubai	INCHCAPE Shipping Services	Rajesh AUPLISH	rajesh.auplish@iss-shipping.com	SDT04040237	27/04/2007
United Arab Emirates	Dubai	INCHCAPE Shipping Services	Harry KARANASSOS	harry.karanassos@iss-shipping.com	SDT04040238	27/04/2007
United Arab Emirates	Dubai	MacGREGOR	Suresh MIKKILINENI		SDT04040248	30/11/2006
United Arab Emirates	Dubai	MacGREGOR	P.P. NARAYANAN		SDT04040246	30/11/2006
United Arab Emirates	Sharjah	ARIES MARINE	Ajith P J	ariesmar@emirates.net.ae	SDT06030520	01/04/2009
United Arab Emirates	Sharjah	ARIES MARINE	Abhilash BACHAN K A	ariesmar@emirates.net.ae	SDT06030519	01/04/2009
United Arab Emirates	Sharjah	INTERTEK CALEB BRETT	Mike JELFS	mike.jelfs@intertek.com	SDT05040444	01/04/2008
United Arab Emirates	DUBAI	HELLENIC SHIPPING SERVICES	A.M.M. MOHAMED IBRAHIM	hellenic@emirates.net.ae	SDT05040440	01/04/2008
United Arab Emirates	DUBAI	LONDON OFFSHORE CONSULT...	Andrew LUND	locme@locme.net	SDT05040443	01/04/2008
United Arab Emirates	Abu Dhabi	GERMANISCHER LLOYD	Alaa AHMED	aa@gl-group.com	SDT05040335	01/04/2008
United Arab Emirates	Abu Dhabi	ABS Europe	Osama ELLIAN	oellian@yahoo.com	SDT05040337	01/04/2008
United Arab Emirates	Dubai	GERMANISCHER LLOYD	Mahmoud HEGAZY	heg@gl-group.com	SDT05040338	01/04/2008
United Arab Emirates	DUBAI	HELLENIC SHIPPING SERVICES	Wahid S. SIDDIQUI	hellenic@emirates.net.ae	SDT05040441	01/04/2008
United Arab Emirates	Sharjah	ARIES MARINE	Anuraj PONNARASSERY	ariesmar@emirates.net.ae	SDT05070454	01/07/2008
United Arab Emirates	Dubai	MacGREGOR (ARE) LLC	Ante ZUVELA	ante.zuvela@macgregor-group.com	SDT06030525	01/04/2009
United Arab Emirates	Dubai	MacGREGOR (ARE) LLC	Patinhare Punathil NARAYANAN	patinhare.narayanan@macgregor-group.com	SDT06030524	01/04/2009
United Arab Emirates	Dubai	MacGREGOR (ARE) LLC	Boris BOSKOVIC	boris.boskovic@macgregor-group.com	SDT06030523	01/04/2009
United Arab Emirates	DUBAI	GERMANISCHER LLOYD	Mohamed SABBAGH	mohamed.sabbagh@gl-group.com	SDT06030522	01/04/2009
United Kingdom	Sunderland	NEPIA Limited	Philip RAMSEY	ramseyfamily@onetel.com	SDT05090474	01/11/2008
United Kingdom	London C...	BRITISH MARINE Managers	Brian SMITH	SmithB@britishmarine.com	SDT04100270	01/10/2007
United Kingdom		MacGREGOR	Michael RICKARDO		SDT04060256	27/05/2007

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United Kingdom	Liverpool	TAYLOR MARINE TR Little	Richard EAMES	RICHARD.EAMES@TAYLORMARINE.NET	SDT04100273	01/10/2007
United Kingdom	Liverpool	TAYLOR MARINE TR Little Ltd.	Alun MASON	Alun.mason@taylormarine.net	SDT04100274	01/10/2007
United Kingdom	Newcastle...	NORTH OF ENGLAND P&I ASSO...	David HASTINGS	DAVID.HASTINGS@NEPIA.COM	SDT04100275	01/10/2007
United Kingdom	Cowes - Is...	CARISBROOKE Shipping	Lewis J. PIPPETT		SDT03100211	01/11/2006
United Kingdom	Newcastle	NORTH OF ENGLAND P&I ASSO...	Paul J. ANDREW	paul.andrew@nepia.com	SDT03100214	01/11/2006
United Kingdom	Kingston u...	MacGREGOR	Peter M. RUDNYCKY		SDT02050173	01/12/2005
United Kingdom	Liverpool		Leslie RICE		SDT03010193	01/02/2006
United Kingdom	Liverpool	TAYLOR MARINE TR Little	Lawrence WHITE	lawrie.white@taylormarine.net	SDT03010194-1	01/03/2009
United Kingdom	Liverpool	TAYLOR MARINE TR Little	Steve FINDLAY	steve.findlay@taylormarine.net	SDT03100210	01/11/2006
United Kingdom	Tyne & Wear	MacGREGOR	John CONVERY	john.convery@macgregor-ncl.com	SDT02030123	01/07/2005
United Kingdom	Tyne & Wear	MacGREGOR	Neil NICHOLSON		SDT02050176	01/01/2006
United Kingdom	Newcastle...	TRANSMARINE Ltd	Michael INCE	M.Ince@transmar-intmaritime.com	SDT05030326	01/03/2008
United Kingdom	London	BRITISCH MARINE MANAGERS	Brian SMITH	SMITHB@BRITISHMARINE.COM	SDT04100270	01/10/2007
United Kingdom	Kingston u...	MacGREGOR (GBR) Ltd.	Peter M. Rudnycky		SDT02050173	01/12/2005
United Kingdom	Kent ME4 ...	TMC Marine Ltd	Colin HEWITT	Tmcchatham@aol.com	SDT05090475	01/11/2008
United Kingdom	London	WEST OF ENGLAND P&I	Andrew TEASDALE	andrew.teasdale@westpandi.com	SDT05110491	01/12/2008
United States		MacGREGOR	Malcolm HODGES		SDT04060258	27/05/2007
United States	Coral Gabl...	INTERORIENT Ship Management	Kersi ENGINEER	k.engineer@interorient.com	SDT04070261	01/07/2007
United States	Coral Gabl...	INTERORIENT Ship Management	Mike WILCOCK	m,wilcock@interorient.com	SDT04070262	01/07/2007
United States	Long Beach		Keith P. HERMANN	keithhermann@hotmail.com	SDT04070263	01/07/2007
United States	Pardis, Lou...	NORTHROP GRUMMAN	Billy BURCH		SDT04120224	01/01/2007
United States	Houston(TX)	SOVEREIGN MARITIME CONSUL...	Aled H. ROBERTS	captaled@aol.com	SDT03100209	01/11/2006
United States	New Orle...	MARTIN OTTAWAY	Jason FERNANDES	jfernandes@martinottaway.com	SDT04120226	05/01/2007
United States	Slidell, LA	Dept. Of Navy "NAVSEA"	Dominic CANTILLO	cantillodj@supship.navy.mil	SDT04120220	01/01/2007
United States	Slidell, LA	Dept. Of Navy "NAVSEA"	Gary WALLIS	wallisgr@supship.navy.mil	SDT04120219	01/01/2007
United States	Metairie, L...	TECHNICAL MARITIME Associate ...	Brian JONES	bsjtechmar@bellsouth.net	SDT04120217	01/01/2007
United States	Marrero, L...	NORTHROP GRUMMAN	John PATTEN	john.patten@ngc.com	SDT04120223	01/01/2007
United States	Bridge City...	NORTHROP GRUMMAN	Brian ROTOLO	kgin1@hotmail.com	SDT04120221	01/01/2007
United States	New York,...	BMT Salvage Limited	David RYAN	david_ryan@wreckage.org	SDT04120218	01/01/2007

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United States	Lafitte, LA	LMS Shipmanagement, Inc	Selmon CORKERN Jr.	corkersa@intship.com	SDT04120225	01/01/2007
United States	Harahan, ...	ABS	Paul BEATTIE	PBeattie@eagle.org	SDT04120215	01/01/2007
Venezuela	Puerto Ordaz	NAVALMOLIA Ing. Y Arq. C. A.	Pedro J. MONQUE B.	pedro.monque@pandiservice.com	SDT04120222	01/01/2007
Vietnam	Hochiminh...	GREAT MARITIME CORPORATION	Napoleon PATERAKIS	capt-napoleon@hcm.vnn.vn	SDT05020316	01/02/2008