

MSF 5513 – MCA aide-memoire for surveyors

	LOAD LINE (INTERNATIONAL & UK) SURVEY AIDE-MEMOIRE			Doc No MSF5513
	NAME of SHIP			Version 3.0
	Surveyor Name		Survey Date	
<p>Notes: Load Line - Initial, Annual & Renewal Survey based on IMO Assembly Resolution A 1140 (31) Survey of Towed Ships and Floating objects based on IMO Assembly Resolution A 765 (18)</p> <p>Not all items apply to Exemption Surveys.</p>				
Select Survey Type - (Initial (I) / Annual (A)) / (Renewal (R)) <i>Greyed out boxes in the right column indicate items not required for survey indicated eg. Item 1 not reqd. for Renewal survey</i>				I A R

CERTIFICATES AND RECORDS - General				
1.01	Validity of; International (or UK) Load Line Certificate or International (or UK) Load Line Exemption Certificate			R
1.02	Validity of; Registry Certificate Tonnage Certificate			
1.03	Validity of; Cargo Ship Safety Radio Certificate Cargo Ship Safety Construction Certificate Cargo Ship Safety Equipment Certificate Cargo Ship Safety Certificate			
1.04	Validity of; International Ship Security Certificate Safety Management Certificate and copy of DOC on board Maritime Labour Convention (MLC 2006) Certificate & DMLC Parts I & II			
1.05	Validity of; International Oil Pollution Prevention Certificate International Sewage Pollution Prevention Certificate; International Air Pollution Prevention Certificate; International Energy Efficiency Certificate Anti Fouling Certificate			
1.06	Certificate of Class, if the ship is classed with a classification society.			
1.07	Checking, when appropriate, the validity of the International Ballast Water Management Certificate; (Once in force)			
1.08	Document of Compliance for Dangerous Goods.			
1.09	Validity of; International Certificate of Fitness for the Carriage of Dangerous Chemicals in Bulk or Certificate of Fitness for the Carriage of Dangerous Chemicals in Bulk			
1.10	Validity of International Certificate of Fitness for the Carriage of Liquefied Gases in Bulk.			
1.11	Validity of International Pollution Prevention Certificate for the Carriage of Noxious Liquid Substances in Bulk.			
1.12	Validity of; Civil Liability for Oil Pollution Damage Civil Liability for Bunker Oil Pollution damage Civil Liability for the Carriage of Passengers			

1.13	Validity of; Maritime Insurance Certificate(s) for Maritime Claims Wreck Removal Insurance Certificate	
1.14	Validity of the Polar Ship Certificate. (As appropriate)	
1.15	Confirming that continuous synopsis record is provided. SOLAS XI-1/R.5	
1.16	Ship's complement complies with the Minimum Safe Manning Document.	
1.17	Master, officers and ratings are certificated as required by STCW .	
1.18	Hours of Rest.	
1.19	Any new equipment fitted has been approved before installation and any changes are reflected in the appropriate certificate and record of equipment.	
1.20	Confirmation of Compliance for the SEEMP Pt II provided onboard – as appropriate MARPOL Annex VI, reg 5.4.5	
1.21	Validity of the Statement of Compliance related to fuel oil consumption reporting – as appropriate. MARPOL Annex VI, regs 6.6 and 6.7	

CERTIFICATES AND RECORDS – Specific

2.01	Record of Particulars Relating to Conditions of Assignment sighted and endorsed. MS (Load Line) Regs 1998 R.27	
2.02	Stability and Inclining report , where applicable damage stability, the loading and ballasting information is available. ILLC 66/88/08 regs. 1 and 10; IS Code chs. 1, 2 and 3	
2.03	Examine the structural strength at the draft corresponding to the assigned freeboard. ILLC 66/88 reg.1	A R
2.04	Examine the structural strength at the draft corresponding to the assigned freeboard. ILLC 66/88/03 reg.1	A R
2.05	Loading and ballasting information has been supplied to the master. ILLC 66/88 reg.10	A R

SURVEY

3.01	Loading instrument operation verification.	
3.02	Strength and weather tightness of the hull – deterioration, meet Class requirements. Sufficient for assigned draft. (see also additional items below for un-classed vessels) ILLC 66/88 reg.1	
3.03	Bow, Inner Bow, Side and Stern door sealing arrangements and weather tightness.	
3.04	Deck line and load line are properly positioned, format and position which, if necessary, are to be re-marked and re-painted. ILLC 66/88 reg.4 to 9	
3.05	No alterations have been made that would affect the calculations of the load lines position. ILLC 66/88 reg.11 to 45	
3.06	Superstructure end bulkheads and any openings examination. ILLC 66/88 reg.11 and 12	
3.07	Cargo hatchways, other hatchways – securing, weather tightness, means of closure. ILLC 66/88 reg.13 to 18	
3.08	Ventilators and air pipes , including their coamings and closing appliances. ILLC 66/88 reg.19 and 20	
3.09	Openings in the ship's side below the freeboard deck – watertight integrity. ILLC 66/88 reg.21	

3.10	Scuppers, inlets and discharges – non return valves, coaming, means of closure. ILLC 66/88 reg.22		
3.11	Garbage chutes. ILLC 66/88/03 reg. 22-1		
3.12	Spurling pipes and cable lockers – closing appliance. ILLC 66/88/03 reg. 22-2		
3.13	Side scuttles and deadlights (Storm covers). ILLC 66/88 reg.23		
3.14	Bulwarks including the provision of freeing ports , shutter operation. ILLC 66/88/03 regs.24 and 25		
3.15	Guard-rails, gangways, walkways and other means provided for the protection of the crew. Access to and from crew quarters and working spaces. ILLC 66/88/03 regs. 25 and 25-1		
3.16	Reduced Freeboard Vessels - Special requirements for ships permitted to sail with type "A" or type "B-minus" freeboards. ILLC 66/88/03 regs. 26 and 27		
3.17	Timber deck cargoes – fittings appliances. ILLC 66/88 regs. 42 to 45		
3.18	Ship has been constructed (strength aspects) in accordance with the approved plans. ILLC 66/88 reg.1	A	R
3.19	Inclining experiment or lightweight check carried out. ILLC 66/88/03 reg.10	A	R

SURVEY OF UNCLASSSED VESSELS - Hull additional Items

4.01	Bottom inspection in accordance with class rules or other statutory/code requirements. (In-water survey or vessel in dry-dock or slipway)		
4.02	Condition of hull and fittings – visual survey.		
4.03	Hull, bulkheads & decks thickness gauging (steel). OAN 722		
4.04	Stern seals – clearances.		
4.05	Sea valves – open for survey.		
4.06	Internal bulkheads – condition.		
4.07	Decks – visual survey.		
4.08	Tanks – opened for survey and tested as required (refer class rules).		

COMPLETION

5.01	International/UK Load Line Certificate or International Load Line Exemption Certificate should be Issued, renewed or endorsed ;		
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SURVEY OF TOWED SHIPS AND FLOATING OBJECTS

PLANS AND DESIGN APPROVAL

6.01	Passage Plan - Examine the route and contingency plans for the intended voyage.		
6.02	Towing Plan – Towing arrangements, bollard pull.		
6.03	Towing Master – Competent towing master appointed.		
6.04	Intact stability , adequacy, at a suitable draught and trim, for the intended voyage.		

SURVEY

6.05	Hull/structure , examination including internal structure and local stiffening in way of/and condition of towage fittings, to ensure adequate strength for towing fittings and the intended voyage. Emergency towing arrangements.		
6.06	Watertight Integrity – hull fittings, watertight doors closed where applicable.		
6.07	Weathertight Integrity - deck openings, including hatches, vents, doors and windows secured.		
6.08	Openings in the ship's side below the freeboard deck closed watertight Any watertight doors closed.		
6.09	Oil - Minimise quantity on board.		

6.10	Loose equipment , stores, etc secured.	
6.11	Load line mark , or other draught marks, visible to tow vessel.	
6.12	Rudder secured amidships, propeller shaft locked.	
6.13	Navigation lights/shapes – fitted, powered.	
6.14	Boarding ladders – rigged on both sides.	
6.15	Tow lines, Emergency tow line, anchor with cable/wire and emergency release, spare equipment to remake tow.	
6.16	Personnel on board during tow (where unavoidable)- including life-saving appliances, radio, accommodation facilities and supplies, fire-fighting appliances, protection of personnel (inc guard wires).	
6.17	GI of Tug – Inspect towing vessel. Suitable for tow, towing procedures, weather forecasts, manning.	
CERTIFICATION		
6.18	Special conditions , favourable weather, route, no cargo/life on board, Coastguard informed, deviation from route.	
COMPLETION		
6.19	International Load Line Exemption Certificate or UK Load Line Exemption Certificate issued .	

SURVEYOR'S NOTES/REMARKS

(include comments about any partially complete items)

Shearwater's load line exemption certificate, in force at the time of the accident



Maritime &
Coastguard
Agency

UNITED KINGDOM LOAD LINE EXEMPTION CERTIFICATE

Issued under the provisions of the Merchant Shipping (Load Line) Regulations 1998,
under the authority of the Government of
the United Kingdom of Great Britain and Northern Ireland
by the Maritime and Coastguard Agency, an Executive Agency of the Department for Transport

PARTICULARS OF SHIP

Name of Ship	SHEARWATER
Distinctive Number or Letters	GYXF
Port of Registry	LEITH

Length (L) in metres as defined by Regulation 2 of the Merchant Shipping (Load Line) Regulations 1998, as amended. Gross Tonnage

THIS IS TO CERTIFY

That the above-mentioned ship is exempt under regulation 5(2) of the Merchant Shipping (Load Line) Regulations 1998 from the following provisions of the Merchant Shipping (Load Line) Regulations 1998 and of the Merchant Shipping Notice MSN1752(M):-

All (unquantified)

Subject to the following conditions:

CONDITIONS

- Operations - (i) The operations are to be to 12 miles from shore. (ii) Operations are to be undertaken in favorable weather. (iii) Passage planning is to be completed, with ports of refuge defined.
- Persons on-board - the persons on-board are those persons that form the crew (4).
- Construction and Closing Arrangements - The vessel construction is to be maintained, watertight and weather-tight.
- Machinery and electrical systems - the vessel machinery is to be maintained in an effective condition for the intended voyage.

Date of initial or renewal survey

This certificate is valid until subject, where appropriate, to annual surveys in accordance with the Merchant Shipping (Load Line) Regulations 1998. ┌ ┐

Issued at on

Signed Name └ Official Stamp ┘

An authorised officer of the Department for Transport

CONDITIONS (Continued) :

- 5. Lifesaving appliances - The lifesaving appliances are to be maintained in accordance with requirements for a class VIIIA Vessel.
- 6. Fire Fighting Equipment - (i) The fire fighting equipment is to be maintained in accordance for a class VIIIA Vessel.
- 7. Radio Equipment - The radio equipment is to be maintained in accordance with the requirements of a class VIIIA Vessel.
- 8. Nautical and Navigational Equipment - The nautical and navigational equipment is maintained in accordance with the requirements of a class VIIIA Vessel.
- 9. Crew - (i) The vessel is to be manned in accordance with a class VIIIA Vessel (ii) The crew are to be trained and familiarised with the vessel. (iii) Adequate hours of rest are to be maintained.
- 10. Stability - (i) Adequate stability is to be maintained for the envisaged conditions. (ii) All closing appliances are to be closed and maintained watertight / weathertight. (iii) No cargo is to be carried (iv) A copy of the stability book dated 20/2/2015 and addendum dated 20/6/2015 is to be on-board (v) Loose gear is to be secured.
- 11. Safety Management - Vessels operation is to to be managed ensuring the safety of personnel.
- 12. Oil / Garbage - Oily water residues are to be retained on-board for discharge ashore.
- 13. Survey / Inspection - deficiencies raised during the inspection / survey to complete within the required timescale.

ENDORSEMENT FOR ANNUAL SURVEYS

THIS IS TO CERTIFY

that at an annual survey required under Regulation 8(1)(c) of the Merchant Shipping (Load Line) Regulations 1998, as amended, this ship continues to comply with the conditions under which the exemption was granted.

Place <input style="width: 90%;" type="text"/>	Signed	<input style="width: 90%; border: 1px dashed black;" type="text"/>	
		An authorised official of the Department for Transport	
Date <input style="width: 90%;" type="text"/>	Name	<input style="width: 90%;" type="text"/>	Official Stamp
			┌ ┐
Place <input style="width: 90%;" type="text"/>	Signed	<input style="width: 90%; border: 1px dashed black;" type="text"/>	
		An authorised official of the Department for Transport	
Date <input style="width: 90%;" type="text"/>	Name	<input style="width: 90%;" type="text"/>	Official Stamp
			┌ ┐
Place <input style="width: 90%;" type="text"/>	Signed	<input style="width: 90%; border: 1px dashed black;" type="text"/>	
		An authorised official of the Department for Transport	
Date <input style="width: 90%;" type="text"/>	Name	<input style="width: 90%;" type="text"/>	Official Stamp
			┌ ┐

NOT APPLICABLE

NOT APPLICABLE

<p>Annual survey in accordance with Regulation 10(8)(c) This is to certify that at an annual survey in accordance with Regulation 10(8)(c) of Merchant Shipping (Load Line) Regulations 1998, as amended, the ship was found to comply with the relevant requirements of those Regulations</p>	
Place <input type="text"/>	Signed <input type="text"/> <small>An authorised official of the Department for Transport</small>
NOT APPLICABLE	
Date <input type="text"/>	Name <input type="text"/> Official Stamp
<p>Endorsement to extend the certificate if valid for less than 5 years where Regulation 10(3) applies The Ship complies with the relevant requirements of the Merchant Shipping (Load Line) Regulations 1998, as amended, and this certificate shall, in accordance with Regulation 10(3) of those Regulations, be accepted as valid until</p>	
Place <input type="text"/>	Signed <input type="text"/> <small>An authorised official of the Department for Transport</small>
NOT APPLICABLE	
Date <input type="text"/>	Name <input type="text"/> Official Stamp
<p>Endorsement where the renewal survey has been completed and Regulation 10(4) applies The Ship complies with the relevant requirements of the Merchant Shipping (Load Line) Regulations 1998, as amended, and this certificate shall, in accordance with Regulation 10(4) of those Regulations, be accepted as valid until</p>	
Place <input type="text"/>	Signed <input type="text"/> <small>An authorised official of the Department for Transport</small>
NOT APPLICABLE	
Date <input type="text"/>	Name <input type="text"/> Official Stamp
<p>Endorsement to extend the validity of the certificate until reaching the port of survey or for a period of grace where Regulation 10(5) or 10(6) applies This certificate shall, in accordance with Regulation 10(5) / 10(6) * of the Merchant Shipping (Load Line) Regulations, as amended, be accepted as valid until</p>	
Place <input type="text"/>	Signed <input type="text"/> <small>An authorised official of the Department for Transport</small>
NOT APPLICABLE	
Date <input type="text"/>	Name <input type="text"/> Official Stamp
<p>Endorsement for advancement of anniversary date where Regulation 10(8)(a) applies In accordance with Regulation 10(8)(a) of the Merchant Shipping (Load Line) Regulations 1998, as amended, the new anniversary date is</p>	
Place <input type="text"/>	Signed <input type="text"/> <small>An authorised official of the Department for Transport</small>
NOT APPLICABLE	
Date <input type="text"/>	Name <input type="text"/> Official Stamp
<p>In accordance with Regulation 10(8)(a) of the Merchant Shipping (Load Line) Regulations 1998, as amended, the new anniversary date is</p>	
Place <input type="text"/>	Signed <input type="text"/> <small>An authorised official of the Department for Transport</small>
NOT APPLICABLE	
Date <input type="text"/>	Name <input type="text"/> Official Stamp

Shearwater's tow plan for the passage from the River Clyde to Eyemouth



Tow plan Clyde to Eyemouth
Agem1 Barge

25/3/2020

MV Shearwater to depart towing Agem 1 barge from Clyde in side tow configuration (Hip tow).
Note weather restrictions of F4 wind and less than 1 metre wave height / swell for hip tow. Force 4 wind and less than 1.75 metre wave height for conventional tow.

When weather increases standard tow of 80 metres Kevlar towline on aft bits of Shearwater through to steel wire towing bridle on Agem1 to be deployed.

When back in sheltered waters tow to be pulled in and Agem1 brought alongside for hip tow.

Note stability conditions for Agem1 . Note all items on Agem1 to be seafastened. Excavator to be Offloaded at Lochaline unless perfect weather forecast. When excavator offloaded, ballast tanks to be emptied and covers replaced.

Navigation

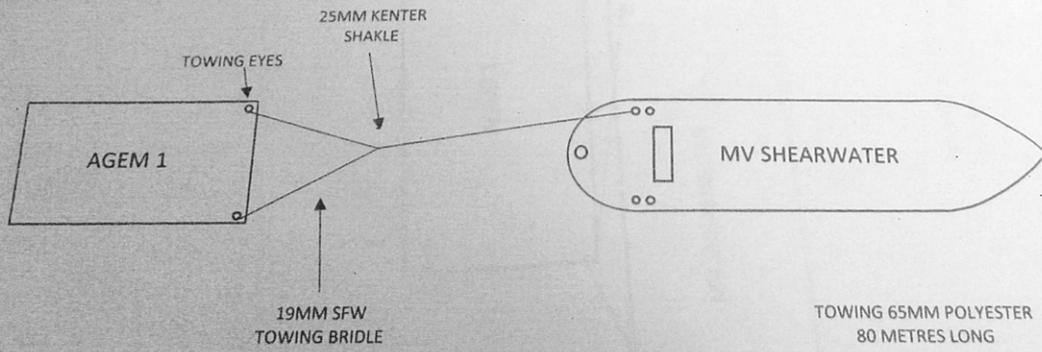
The tow shall take place using the accompanying passage plan. Areas of refuge for weather and tide have been identified such as Campbeltown, Jura, Gairloch, Lochinver , KLB, Scrabster, Fraserburgh , Buckie & Arbroath. Extra care shall be taken going through Pentland Firth and attention paid to the Pentland Firth reporting system. VTS notified where required and Tow Permits approved by Peelports for Clyde.

Safety

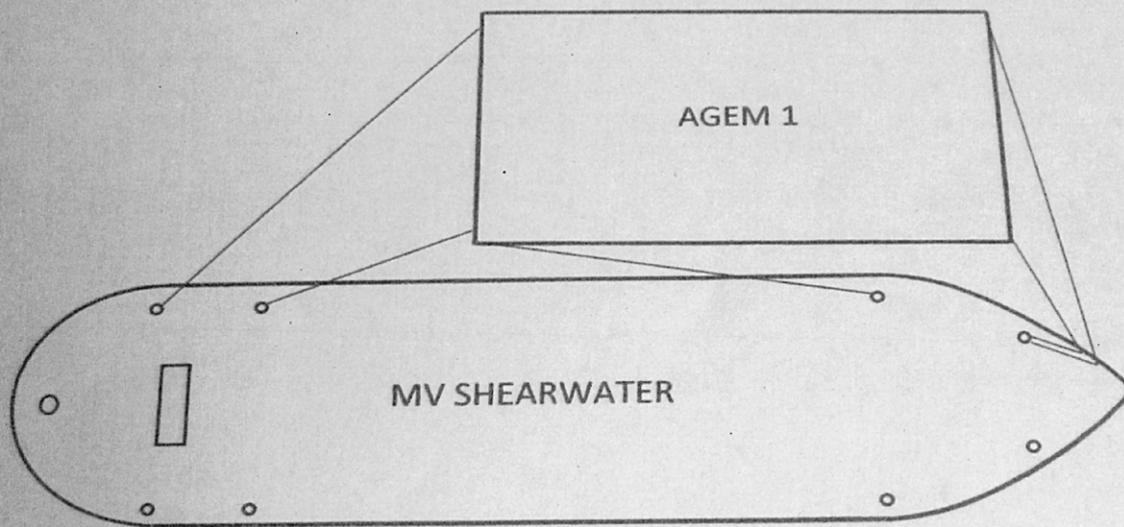
Crew shall be trained on the snapback and crush zones on the rear of Shearwater and Agem1. Full PPE to be worn on deck at all times. Navigation lights on Agem1 and Tow lights on Shearwater to be illuminated before dark.

Passage plan no 49 . Charts in use
Hip tow & conventional tow configuration plans
Sea fastening checklist Agem1

CONVENTIONAL STERN TOW
MV SHEARWATER + AGEM 1 BARGE



SIDE (HIP) TOW
MV SHEARWATER + AGEM 1 BARGE
FOR TOWING IN CATEGORISED WATERS AND
SHELTERED CONDITIONS



BREAST LINES 52MM POLYESTER
SPRING LINES 85MM POLYESTER