
Part C

Survey Questionnaire

Reefer Ship

Ship name:

IMO No:

Date survey completed:

Survey port:

Surveyor's name:

Survey company:

Surveyor's ref. number:

Order club:

Club ref. no.:

This report, and any accompanying documentation or photographs, has been compiled for the sole use of the Association for insurance purposes only and should not be disclosed to third parties without prior written permission from the Association. The information contained in this report, and any accompanying documentation or photographs, is not exhaustive as to the general condition of the ship and should not be relied upon by members or by any other party as any assurance, representation or warranty as to the condition of the ship and nothing herein shall prejudice the Club's rights under the insurance policy in the event of a dispute between the Club and the member relating to the condition of the ship.

5. Survey Questionnaire - Reefer Ship

5.1 Cargo holds and cooler spaces

		Y	N	NA	NI	Remarks
5.1.1	Are spaces clean and free from mould and taint / smell from previous cargoes?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.1.2	Are spaces underneath gratings clean and free from debris or previous cargoes?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.1.3	Is there a system in place for regular cleaning of these spaces and appropriate records maintained?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.1.4	Is an adequate quantity of cargo hold cleaning chemicals kept onboard?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.1.5	Are the cargo holds free of snagging hazards which may damage cargo and its packaging?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.1.6	Are spar deck planks, hatch gratings and supports in good condition, level and secure?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.1.7	Are hatch gratings close fitting and free from any significant gaps?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.1.8	Are sufficient spare gratings, spar deck planks and supports, as appropriate, available on board?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.1.9	If appropriate, are walking boards used during cargo operations?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

- 5.1.10 Are preventative measures, such as warning signage, in place to prevent food and glass items being taken into the cargo holds?
- 5.1.11 If fitted, are side shorings (boards and side battens) in good condition and free from wear or damage?
- 5.1.12 Is the condition of pipework, where visible (cooling, defrosting, air, sounding, bunker, ballast, etc.), lagging and protection guards in cargo spaces in apparent satisfactory condition?
- 5.1.13 Are the fresh air and circulation fans operational and in apparent good condition?
- 5.1.14 Is the cargo hold lighting free from damage and in apparent good working order?
- 5.1.15 Are cargo space separations (tween deck hatches, doors, etc. if relevant) adequate for intended cargoes?
- 5.1.16 Are cargo holds insulation, including tank top, lining and thermal seals in apparent satisfactory condition?
- 5.1.17 Are ventilation ducts, gratings and closing devices in apparent satisfactory condition?
- 5.1.18 Are bilges clean, non-return valves working and bilge pumps in good working order?
- 5.1.19 Is the tween deck drainage system clean, dry and in good working order?
- 5.1.20 If fitted, are cargo hold locked-in alarms functioning correctly and tested regularly?

Additional information

5.2 Cargo systems

		Y	N	NA	NI	Remarks
5.2.1	Are defrosting facilities in apparent satisfactory working condition?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.2.2	Are fixed / portable temperature sensors calibrated and in apparent satisfactory working condition?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.2.3	Are spare temperature sensors available on board?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.2.4	Are the delivery and return air sensors regularly tested?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.2.5	Is the refrigeration system apparently free of refrigerant leakage?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.2.6	Is sufficient spare refrigerant available for a 50% charge?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.2.7	If brine is used as a refrigerant, is there sufficient spare Calcium Chloride onboard for a complete change of brine?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.2.8	If a controlled atmosphere system is fitted, is the gas generating plant operational and apparently well maintained?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.2.9	If a controlled atmosphere system is fitted, are procedures in place to prevent the unauthorised access of personnel into the cargo spaces when an unsafe atmosphere exists?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

5.2.10 Is all reefer machinery and auxiliary equipment in apparent good working order?

5.2.11 Are full load tests regularly carried out on reefer compressors?

5.2.12 Are all auxiliary engines / generators in satisfactory condition and capable of achieving the full power rating?

Additional information

5.3 Lifting appliances

		Y	N	NA	NI	Remarks
5.3.1	Are cranes / derricks in apparent satisfactory structural condition?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.3.2	Is SWL clearly marked on crane / derrick jib and loose gear?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.3.3	Are crane wires and sheaves in apparent satisfactory condition?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.3.4	Are crane / derrick safety devices apparently operational and regularly tested?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.3.5	Is slew bearing wear being regularly monitored, eg by grease sampling or rocking test?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.3.6	Are the holding down bolts and slewing ring apparently free of significant corrosion?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

- 5.3.7 Is loose gear apparently free from excessive wear and corrosion?
- 5.3.8 Are crane / derrick electrical / hydraulic systems free from apparent defects?
- 5.3.9 Are crane access ladders and platforms in apparent satisfactory condition and allow for safe access?
- 5.3.10 Are lifting appliance maintenance records kept?

Additional information

5.4 Hatch covers and other closing appliances

		Y	N	NA	NI	Remarks
5.4.1	Are hull openings and closing appliances, where applicable, in apparent satisfactory condition?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.4.2	Are all cargo hatch covers and coamings, including landing pads, in apparent satisfactory condition?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.4.3	Confirm no apparent indications of water or oil leaks in the cargo holds?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.4.4	Are access hatches and coamings in apparent satisfactory condition?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.4.5	Are hatch cover panels apparently correctly aligned?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

- | | | | | | |
|--------|---|-----------------------|-----------------------|-----------------------|-----------------------|
| 5.4.6 | Are compression bars, landing pads, cleats and cross joint wedges in good condition and properly adjusted? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5.4.7 | Are rubber gaskets in good condition? Are any repairs correctly performed (paying particular attention to corner pieces)? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5.4.8 | Are side and cross joint drain channels and non-return devices in good condition? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5.4.9 | Can hatch covers be closed / opened without undue delay? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5.4.10 | Is chain pull / hydraulic system in satisfactory condition and free from any signs of corrosion and leakage? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5.4.11 | Are hatch cover hinges in apparent satisfactory condition? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5.4.12 | Can main and access hatch covers be safely secured in the open position? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5.4.13 | Are all tween deck covers in apparent satisfactory condition? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5.4.14 | Are the tween deck hydraulic hoses and pipes in good condition? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5.4.15 | Are safety barriers fitted around open tween decks? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

5.4.16 Is a hatch cover manual on board and in a language understood by the crew? State hatch cover manufacturer.

Additional information

5.5 Cargo securing

		Y	N	NA	NI	Remarks
5.5.1	Are fixed lashing points in apparent satisfactory condition and free from excessive wear / corrosion? (eg twist lock sockets, D-rings)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.5.2	Is loose lashing and securing equipment including twist locks in apparent satisfactory condition and free of excessive wear / corrosion?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.5.3	Are sufficient numbers of loose lashing and securing equipment provided?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.5.4	Are the twist locks and lashing equipment of the same type as specified in the approved Cargo Securing Manual?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.5.5	Are lashing maintenance records satisfactorily maintained?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.5.6	If applicable, are the T-bars and air bags in good condition?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Additional information						

5.6 Documentation and procedures

		Y	N	NA	NI	Remarks
5.6.1	Are carriage instructions for the intended cargo provided and followed?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.6.2	Are hold temperatures / CO ₂ / O ₂ levels, as appropriate, properly recorded and records retained?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.6.3	Are reefer plant logs satisfactorily maintained?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.6.4	Is there a record of temperature probe and gas analyser calibrations?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.6.5	If appropriate, does the vessel maintain a log of pulp temperatures during loading operations?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.6.6	Is the manufacturer's manual of the reefer plant onboard in a language understood by ship staff?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.6.7	Is the data logger, if fitted, in working order?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Additional information						

5.7 Safety and Operational test (were the following tests carried out and found satisfactory?)

		Y	N	NA	NI	Remarks
5.7.1	Engine room bilge high level alarms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.7.2	Emergency fire pump with two fire hoses on separate hydrants	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.7.3	Emergency power sources and emergency lighting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.7.4	Engine room remote stops and shutdowns	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.7.5	Tightness tests of hatch covers and other relevant closing appliances	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.7.6	Cargo hold bilge suction test	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.7.7	Cargo hold high level alarms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.7.8	Hydro test of ballast spaces surrounding the cargo area	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5.7.9	Ice test to be carried out on all vessel's hand-held temperature probes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Additional information						