

U.S.C.G. Merchant Marine Exam

Master TV to Master Less than 500 Gross Registered Tons
Oceans or Near Coastal

Q132 Deck General – Safety

(Sample Examination)

Choose the best answer to the following Multiple-Choice Questions.

1. Your vessel is required to have a slop chest. Which of the following articles is NOT required by law to be carried in the slop chest?
- A. Candy
 - B. Tobacco products
 - C. Foul weather clothing
 - D. Blankets

Correct answer: A

2. How should you FIRST treat a simple fracture?
- A. Applying a tourniquet
 - B. Attempting to set the fracture
 - C. Alternately applying hot and cold compresses
 - D. Preventing further movement of the bone

Correct answer: D

3. Which condition must be met during a stability test on an inspected vessel?
- A. Water under vessel must be deep enough to prevent grounding
 - B. The vessel must be moored snugly
 - C. All dunnage, tools, and extraneous items are secured
 - D. Each tank must be partially full to show it does not leak

Correct answer: A

4. The Master of a fishing vessel must ensure that each crew member participates in at least one fire drill during which time frame?
- A. A day
 - B. Every week
 - C. Once a month
 - D. Once every 3 months

Correct answer: C

5. The Safety of Life at Sea Convention was developed by which organization?
- A. American Bureau of Shipping
 - B. International Maritime Organization
 - C. U.S. Coast Guard
 - D. American Institute of Maritime Shipping

Correct answer: B

6. Which item is NOT required to be marked with the vessel's name?

- A. Hand-portable fire extinguisher
- B. Life preserver
- C. Immersion suit
- D. Lifeboat oar

Correct answer: A

7. You have berthed in a port area with other tank vessels. What signal is displayed by a vessel to indicate it is transferring flammable or combustible liquid cargo?

- A. A green light visible all around the horizon at night and a green flag during daylight
- B. A flashing yellow light at night and a yellow flag during daylight
- C. A red light visible all around the horizon at night and a red flag during daylight
- D. An illuminated red and yellow caution flag displayed night and day

Correct answer: C

8. On an inspected vessel, when may a stability test be dispensed with?

- A. Coast Guard has the approved stability test results of a sister vessel
- B. Coast Guard does not have a qualified inspector available
- C. The projected cost is unreasonable
- D. The vessel is of a proven design

Correct answer: A

9. Who must approve the vessel's trim and stability booklet?

- A. United States Coast Guard
- B. International Maritime Organization
- C. National Cargo Bureau
- D. Society of Naval Architects and Marine Engineers

Correct answer: A

10. The signal man assisting the crane operator has his arm extended, his fingers closed, and his thumb pointing downward. This is the signal to _____.

- A. lower the boom
- B. hoist the load
- C. raise the boom
- D. lower the load

Correct answer: A

11. What does the boom indicator on a crane indicate?

- A. The direction of the boom
- B. The angle of the boom
- C. The length of the boom
- D. The lifting capacity of the boom

Correct answer: B

12. How does the rotation of the steering wheel on the navigation bridge initiate oil pressure being applied to the steering gear rams?
- A. It is moving the automatic differential valve
 - B. By varying the angle of a tilting box or eccentricity of a floating ring
 - C. It is moving the follow up indicator which regulates the six-way valve
 - D. By regulating the oil flow with the six-way valve

Correct answer: B

13. Most liquefied gas cargoes are flammable, and are carried at or close to their boiling point. What will happen if they are released into the atmosphere?
- A. Freeze and possibly cause structural damage
 - B. Burn, if it's within its flammable range and has an ignition source
 - C. Allow air to enter the system causing polymerization
 - D. Result in sloshing in the tank which could make the ship unstable

Correct answer: B

14. Which statement about tunnel bow thrusters fitted to large vessels is TRUE?
- A. Because of their location, most modern installations have as much power as a tug.
 - B. When going astern at slow speed, they provide effective steering control.
 - C. They are fully effective at all drafts.
 - D. They are effective on most vessels at speeds up to 10 knots.

Correct answer: B

15. Overspeed of the diesel engine driving an electric generator could cause which situation to occur?
- A. Low exhaust temperatures
 - B. A low voltage trip
 - C. Damage to the generator
 - D. A reverse power trip

Correct answer: C

16. What does the signal L1210 indicate?
- A. The zone time is 1210
 - B. The latitude is 12°10'
 - C. The longitude is 12°10'
 - D. GMT is 1210

Correct answer: B

17. On every vessel, where must distress signals be stowed?
- A. Above the freeboard deck away from heat
 - B. On or near the navigating bridge
 - C. In an enclosed space below the freeboard deck away from heat
 - D. On the flying bridge not closer than 15 feet to any bulkhead

Correct answer: B

18. You are approaching the pilot station with the wind fine on the starboard bow and making about 3 knots. You can help to calm the seas by taking what action just before the pilot boat comes along on the port side?
- A. A short burst of ahead full with left full rudder
 - B. Giving right full rudder
 - C. Backing full
 - D. Stopping the engines

Correct answer: A

19. When launching an open lifeboat by falls, which is TRUE concerning the boathooks?
- A. They must be secured forward and aft where readily available
 - B. They must be kept free to be used for fending off
 - C. They must be secured amidships where they will not hinder the personnel
 - D. They must be used for picking up survivors in the water

Correct answer: B

20. What entry would NOT be shown on the V line of an AMVER report?
- A. MD
 - B. PA
 - C. MT
 - D. NURSE

Correct answer: C

21. Periodic surveys to renew the load line assignment must be made at which interval?
- A. 18 months
 - B. Two years
 - C. Three years
 - D. Five years

Correct answer: D

22. Your vessel is damaged, listing to port and on occasion flopping to the same angle to starboard. It has a long, slow, sluggish roll around the angle of list. There is excessive trim by the stern with little freeboard aft. What action should you take FIRST to correct this situation?
- A. Press up any slack double bottom tanks forward of the tipping center, then fill the forepeak if empty.
 - B. Pump out the after peak and fill the forepeak to change the trim.
 - C. Pump out any slack after double bottom tanks to reduce free surface and increase freeboard aft.
 - D. Jettison any off-center topside weights to lower GM and correct the list.

Correct answer: A

23. A ship station license for your radiotelephone is valid for which of the following terms?
- A. One year
 - B. Two years
 - C. Ten years
 - D. The life of the vessel

Correct answer: C

24. Your vessel has just run aground. Which of the following would be one of the first actions you should take in this situation?
- A. Apply RPM to one propeller
 - B. Sound all tanks
 - C. Back the engines full astern
 - D. Pump out all double bottoms

Correct answer: B

25. What is the purpose of a spreader bar when loading cargo?
- A. It will increase the lifting capacity
 - B. It will protect the upper part of a load
 - C. It will increase the lifting radius
 - D. It will protect the slings

Correct answer: B

26. How should longitude 116°54.9'E be written when preparing an AMVER report?
- A. 11655E
 - B. 116.9E
 - C. Q1169
 - D. 117E

Correct answer: A

27. If one hydraulic pump of an electro-hydraulic steering unit fails, the vessel's steering can initially be maintained by activating which of the following units?
- A. The accumulator
 - B. The telemotor
 - C. The trick wheel
 - D. The standby pump

Correct answer: D

28. The rudders are amidships and both screws are going ahead. What will happen if the starboard screw is stopped?
- A. The stern will go to starboard.
 - B. The bow will remain steady.
 - C. The bow will go to port.
 - D. The bow will go to starboard.

Correct answer: D

29. What term indicates the length measured along the summer load line from the intersection of that load line with the foreside of the stem and the intersection of that load line with the aft side of the rudder post?
- A. Length overall
 - B. Length on the waterline
 - C. Register length
 - D. Length between perpendiculars

Correct answer: D

30. Which of the following is a treatment of frostbite?

- A. Wrapping area tightly in warm cloths
- B. Rubbing affected area with ice or snow
- C. Warming exposed parts rapidly
- D. Rubbing affected area briskly to restore circulation

Correct answer: C

31. In ship construction, where should the keel scantlings be the greatest thickness?

- A. At each frame
- B. One-third the distance from the bow
- C. One-third the distance from the stern
- D. Amidships

Correct answer: D

32. A person who observes an individual fall overboard should do which of the following?

- A. Call for help and keep the individual in sight
- B. Immediately jump into the water to assist the individual
- C. Run to the radio room to send an emergency message
- D. Go to the control room for the distress flares

Correct answer: A

33. SOLAS requires Emergency Instructions be posted in conspicuous places throughout the vessel. On a passenger vessel what language shall these instructions be posted in?

- A. The language required by the ship's flag State and in English
- B. English, Spanish, French and German
- C. English because it is the international language
- D. The principal language of the passengers and in English

Correct answer: A

34. Which defines reserve buoyancy?

- A. All transverse watertight bulkheads
- B. the void portion of the ship below the waterline which is enclosed and watertight
- C. The watertight part of a vessel above the waterline
- D. A measure of the vessel's metacentric height

Correct answer: C

35. Signals between an icebreaker and an assisted vessel may NOT be given by which form of communication?

- A. Whistle
- B. Flag hoist
- C. Radiotelephone
- D. Radiotelegraph

Correct answer: D

36. On vessels over 100 gross tons, whose responsibility is it to ensure that all able seamen in the vessel's crew have the documents and qualifications required by law and regulation?
- A. Company's personnel director
 - B. Master of the vessel
 - C. Owner or operator of the vessel
 - D. USCG Officer in Charge of Marine Inspection

Correct answer: B

37. Your enrolled vessel is bound from Baltimore, MD, to Norfolk, VA, via Chesapeake Bay. Which statement about the required Pilot is TRUE?
- A. The Pilot must be credentialed by Virginia, Maryland and the Coast Guard.
 - B. The Pilot must be credentialed by either Virginia or Maryland.
 - C. The Pilot must be credentialed by Virginia and Maryland.
 - D. The Pilot need only be credentialed by the Coast Guard.

Correct answer: D

38. If a Master must jettison a container loaded with hazardous material, he must, as soon as possible, notify the _____.
- A. nearest Captain of the Port
 - B. National Hazardous Chemical Response Center
 - C. Environmental Protection Agency
 - D. National Cargo Bureau

Correct answer: A

39. The tankship Northland is loaded as shown in table BL-0004 below. Use the salmon-colored pages in the Stability Data Reference Book to determine the hogging numeral.

BL-0004

LONGITUDINAL BENDING STRESSES (PSI)		
	DESCRIPTION	
1.	FORE PEAK	0
2.	DEEP TANK P/S	0
3.	FWD STORES	6
4.	FWD BUNKERS	1600
5.	FWD COFFERDAM	0
6.	#1 CARGO TANK	5229
7.	#2 CARGO TANK	5193
8.	#3 CARGO TANK	4229
9.	#4 CARGO TANK	5116
10.	BRIDGE CREW	3
11.	BRIDGE STORES	12
12.	BRIDGE F.W.	15
13.	#5 CARGO TANK	3956
14.	#6 BALLAST TANK	1628
15.	#7 CARGO/BALLAST TANK	5929
16.	#8 CARGO/BALLAST TANK	6012
17.	#9 CARGO/BALLAST TANK	0
18.	#10 CARGO TANK	5417
19.	#11 CARGO TANK	3257
20.	AFT COFFERDAM	0
21.	AFT BUNKERS	900
22.	AFT SETTLERS	325
23.	DISTILLED WATER	56
24.	AFT STORES	75
25.	AFT CREW	7
26.	F.W. AFT	57
27.	AFT PEAK	375

- A. 49.73 numeral
- B. 52.76 numeral
- C. 55.29 numeral
- D. 57.93 numeral

Correct answer: A

40. You have abandoned ship and are adrift in a liferaft with a SART. What signal will indicate to you that a 3 cm radar has interrogated the SART unit?
- A. SART units do not respond to interrogation by a 3cm radar
 - B. Your latitude and longitude will appear on the display
 - C. The serial number of the unit will appear on the display
 - D. The unit will emit an audible alarm and visual signal

Correct answer: D

41. You are at sea and have received a General Emergency message announcing the outbreak of war in Europe. You are directed to comply with the instructions in NGA (NIMA) PUB 117, Chapter Eight. Which statement is TRUE?
- A. When over 200 miles from a port in the danger zone, you should not darken ship
 - B. You should attempt to coordinate with the Shipping Control Team
 - C. If on a coastwise voyage along the east coast of the U.S., you should put into the nearest port
 - D. You should only enter a port in the danger zone during hours of darkness

Correct answer: B

42. Tonnage openings must be closed by means of _____.
- A. steel hatch boards
 - B. press board
 - C. wooden hatch boards
 - D. steel plates

Correct answer: D

43. According to the Chemical Data Guide, what are the flammable limits of ethylene oxide?
- A. 2 - 100%
 - B. 1.85 - 48.0%
 - C. 2.7 - 34%
 - D. 1.9 - 88.0%

Correct answer: A

44. CATEGORY I EPIRB's transmit on frequencies that are monitored by _____.
- A. commercial radio stations
 - B. orbiting satellites in space
 - C. private, commercial, and military aircraft
 - D. Both A & C

Correct answer: B

45. Your vessel is conducting helicopter evacuation operations for an injured crew member. Which of the following statements is true concerning the hoisting line?
- A. Allow the line to touch the deck to discharge the static electricity
 - B. A tag line is required to be attached to the hoist cable for securing
 - C. As a safety measure wrap the line around the patient before attaching it to the basket
 - D. Secure the graining line to the deck railings

Correct answer: A

46. A twin-screw ship going ahead on the starboard screw only, will move the bow in which direction?
- A. The bow will swing to starboard
 - B. The bow will shift from side to side
 - C. The bow will swing to port
 - D. The bow will remain in a straight line

Correct answer: C

47. What is the name of the mark indicated by the letter F in illustration D003DG below?

- A. Summer load line
- B. Tropical load line
- C. Fresh water load line
- D. Winter load line

Correct answer: D

48. You are downbound in an ice filled channel. An icebreaker is meeting you and sounds two short, one prolonged, and two short blasts on the whistle. What action should you take?

- A. Stop your headway and await further signals.
- B. No action is required; the icebreaker will move out of the channel.
- C. Slow to bare steerageway and be prepared to come ahead as the icebreaker commences escorting your vessel.
- D. Move to the right-hand side of the channel and slow to bare steerageway.

Correct answer: A

49. You are signing on the Purser. He should present a Merchant Mariner Credential with which endorsement?

- A. Purser
- B. Certificate of Registry
- C. Staff Officer
- D. Steward's Department

Correct answer: B

50. When taking a Pilot from a pilot vessel in a seaway, which way should you head your vessel if the ladder is on the leeward side?

- A. Sea on the lee quarter with ship moving ahead slowly
- B. Bow to the sea and no way on your vessel
- C. Sea on the quarter with sternway on the ship
- D. Sea on the weather bow and ship moving ahead slowly

Correct answer: D

51. You are conducting trials to determine the maneuvering characteristics of your vessel. While making a turn, you take ranges and bearings of an isolated light. The results are shown in illustration D034DG below. What is the transfer for a turn of 90°?

- A. 355 yards
- B. 400 yards
- C. 475 yards
- D. 510 yards

Correct answer: B

52. SOLAS requires a lifesaving training manual be provided in each crew cabin or in which other location?

- A. In the engineering control station
- B. On the bridge
- C. In the fire control room
- D. In the recreation and messrooms

Correct answer: D

53. Which is TRUE concerning a certificated lifeboatman assigned to command a lifeboat?

- A. Must have a list of the persons assigned to the lifeboat
- B. Must drain the hydraulic pressure before lowering the craft
- C. He/She should be the first individual to board the craft
- D. Must be the brakeperson actually lowering the boat

Correct answer: A

54. Which VHF channel should you avoid using as a working channel?

- A. 7A
- B. 8
- C. 9
- D. 16

Correct answer: D

55. Where must a pressure gauge for each fire pump on a tankship be located?

- A. At the pump station
- B. At the manifold connection
- C. At the pump discharge
- D. At each fire station discharge

Correct answer: C

56. Which is a precaution you should take before bunkering?

- A. Plug the scuppers
- B. Close the lids on the vents
- C. Plug the vents
- D. Plug the sounding pipes

Correct answer: A

57. When referring to quantity of barite in a P-tank, ullage is the _____.

- A. distance of the barite surface below the tank cover
- B. total weight of barite in UPC (ullages per centimeter)
- C. distance of the barite surface above the tank bottom
- D. percentage of barite in the tank

Correct answer: A

58. A load line certificate is valid for how many years?

- A. 1
- B. 2
- C. 3
- D. 5

Correct answer: D

59. A U.S. or foreign flag vessel that does not comply with the Officers Competency Certificates Convention of 1936 may be detained by certain designated officials. These officials include all of the following EXCEPT a/an _____.

- A. Coast Guard officer
- B. State Police officer
- C. Coast Guard petty officer
- D. officer of the U.S. Customs Service

Correct answer: B

60. You are the credentialed Master of a 100 GT towing vessel sailing coastwise. What percentage of the deck crew must be able to understand any order spoken by the officers?

- A. 50%
- B. 65%
- C. 75%
- D. 100%

Correct answer: C

61. As a rule, ships of most configurations, when drifting in calm water with negligible current, will lie in which orientation?

- A. The bow will be to the wind
- B. With the wind on the quarter
- C. The beam will be to the wind
- D. The stern will be to the wind

Correct answer: C

62. If you are bunkering and you close off one tank in the line of tanks being filled, what happens to the rate of flow to other open tanks on the same line?

- A. The rate of flow remains constant to the open tanks
- B. The rate of flow stops to the open tanks
- C. The rate of flow increases to the open tanks
- D. The rate of flow decreases to the open tanks

Correct answer: C

63. Which device is designed to automatically hold the load if power should fail to an electric winch?

- A. Pneumatic brake
- B. Hand brake
- C. Motor controller
- D. Electromagnetic brake

Correct answer: D

64. You are ordering hazardous ships' stores. Which statement is TRUE?

- A. Cylinders containing compressed gasses must be constructed and tested in accordance with the Bureau of Standards.
- B. All distress flares when received must be stored in the portable magazine chest.
- C. Up to five gallons of a flammable liquid may be stowed in the engine room.
- D. All stores of line, rags, linens and other similar type stores must be certified by UL as being fire retardant.

Correct answer: C

65. You are Master of a vessel that is sold in a foreign country after discharge of cargo. What is your responsibility to the crew in regard to return to the United States?

- A. There is no requirement for return to the United States provided the voyage has exceeded 4 weeks duration.
- B. The crew can be employed on another United States vessel, but only if it is returning to the port of original engagement.
- C. You must provide passage to the port of original engagement.
- D. You must provide air transportation to the nearest port of entry in the United States.

Correct answer: C

66. What is the period of validity of a Cargo Ship Safety Equipment Certificate?

- A. 72 months
- B. 60 months
- C. 48 months
- D. 42 months

Correct answer: B

67. As the propeller turns, voids are formed on the trailing and leading edges of the propeller blades causing a loss of propulsive efficiency, pitting of the blades, and vibration. Which term defines this effect?

- A. Advance
- B. Slip
- C. Edging
- D. Cavitation

Correct answer: D

68. To increase the extent of flooding your vessel can suffer without sinking, you could take which action?

- A. Ballast the vessel
- B. Raise the center of gravity
- C. Increase reserve buoyancy
- D. Lower the center of gravity

Correct answer: C

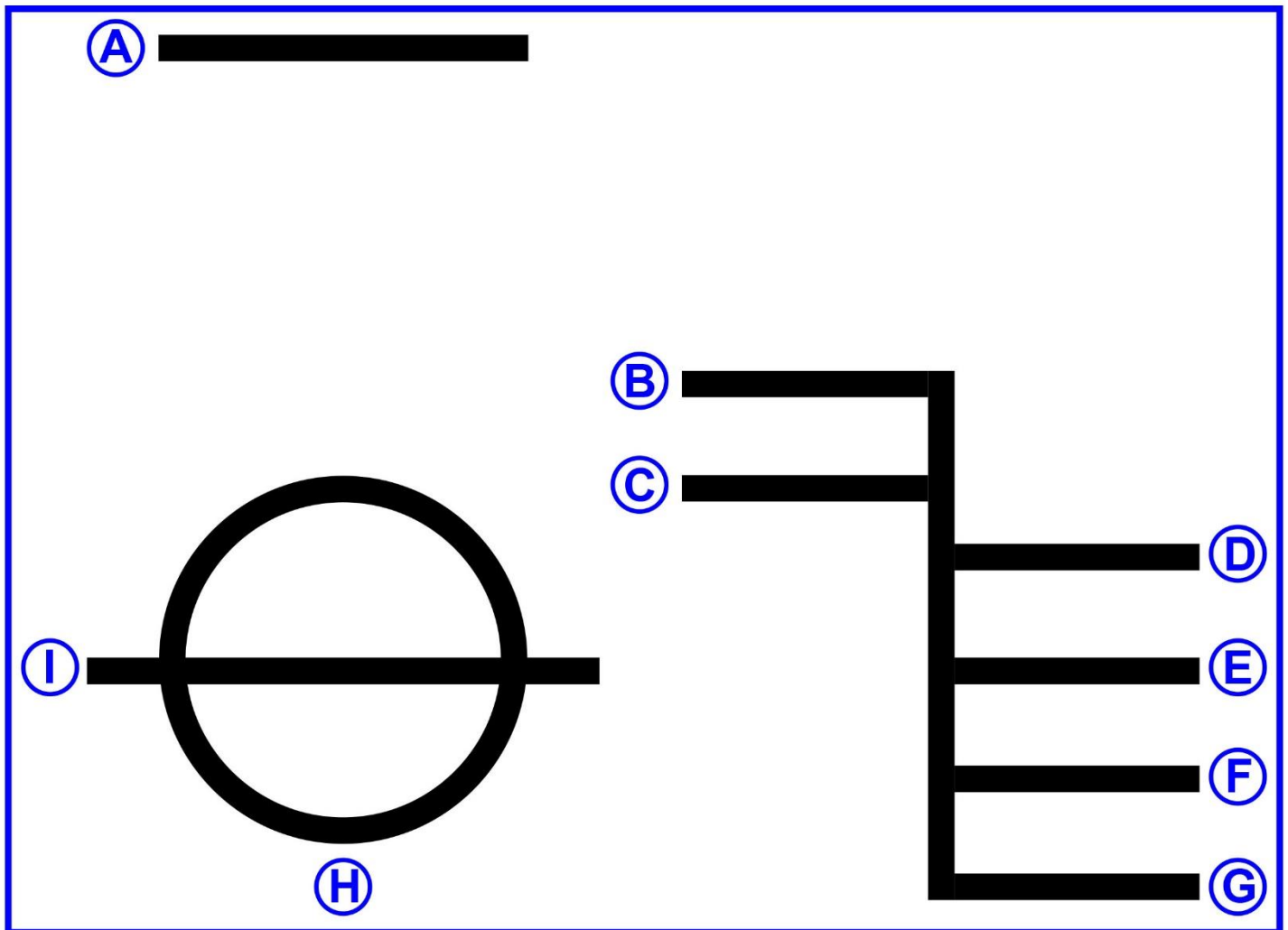
69. In accordance with Coast Guard Regulations, which statement is TRUE with regards to Coast Guard approved buoyant work vests?
- A. They should be stowed in engineering spaces in lieu of approved life jackets because they are less bulky and permit free movement in confined spaces
 - B. The vests may be used as a substitute for approved life preservers during routine drills, but never during an emergency
 - C. A work vest should not be stowed where they could be confused with life jackets in an emergency
 - D. All of the above

Correct answer: C

70. What is the primary use of antiseptics?
- A. To speed healing
 - B. To prevent infection
 - C. To reduce inflammation
 - D. To increase blood circulation

Correct answer: B

D003DG



D034DG

HEADING (TRUE)	BEARING (TRUE)	RANGE (YDS)	REMARKS
228°			INITIAL HEADING
228°	232°	2260	ON INITIAL COURSE
228°	234°	1700	RIGHT FULL RUDDER ORDERED
230°	236°	1490	
252°	235°	1275	
275°	231°	1000	
316°	214°	850	
352°	198°	975	
022°	194°	1210	
053°	197°	1430	
087°	202°	1600	
115°	209°	1690	
151°	217°	1700	
183°	225°	1600	
218°	232°	1350	RUDDER AMIDSHIPS
228°	235°	1125	STEADY ON 228°