AM

Oral Exam Questions

Liverpool

Examiner: P Lewis

Time: 1 hour 10 minutes

Was taken in at 1:15, he introduced himself before going into the exam room. Asked for my discharge book and passport, had a look through both and then had a chat about my sponsoring company for a couple of minutes. He then explained he would be working from my task book and MGN 69.

Would be worth while having a re-read of your task book to be fully familier with it as he will read and pick out reports. These are in the best order I can remember, he did jump around a bit

- 1. Draw a line diagram for a sewage system and sewage treatment plant
- 2. Explain the diagram
- 3. You are going to carryout maintenance on a piece of pipework in the system what are you going to do?
- 4. What are the associated dangers with working on this system? (human waste, disease etc)
- 5. What legislation is there for sewage marpol annex 4
- 6. Talk me through your refrigeration system
- 7. Talk me through your air conditioning system
- 8. What are the dangers of an ac system
- 9. Boiler mountings
- 10. Boiler running checks
- 11. Boiler trips and alarms
- 12. Boiler feed water tests
- 13. Why we do these testes
- 14. How the tests are carried out
- 15. What temp for hotwell, why
- 16. How else we get rid of oxygen chemical scavenger
- 17. Purpose of header tanks
- 18. Move to generators, what are you checking
- 19. Generator trips
- 20. How do you test mechanical overspeed
- 21. Are there any other ways
- 22. What are the dangers of testing this
- 23. Talk to me about L.O.
- 24. Properties in engine, why?

- 25. How the temperature is measured and fed back to the mimic panel in the ECR wanted to know what was inside the device itself, what the measuring unit consisted of. I said temperature probes inside he just kept asking about how it worked and what was inside it. I had no clue.
- 26. What do we compare the temperature in the engine room to? Ambient air outside, he asked how I said there are thermometers in the engine room
- 27. How we know we are using correct L.O.? delivery notice manufacturers instructions.
- 28. How do we measure L.O. was looking for viscosity and I said TBN, also wanted specific gravity which I got after a afew seconds
- 29. What happens on start up for generator? Pre lube pump start
- 30. How are the bearing lubricvated
- 31. What happens when there is no lubrication
- 32. Asked the same for shaft bearings
- 33. Main engine trips
- 34.L.O. low pressure what stages are there alarm and trip after set point and time
- 35. Safeties on engine
- 36. How OMD works
- 37. Purifier principle
- 38. How it seals
- 39. Fire detection systems in engine room
- 40. How heat detector worked
- 41. Dangers of air start line, safety's on it
- 42. Safety's on air bottle
- 43.Looked at my bilge system and asked if I had ever pumped bilges alone on my last vessel, I said no but always went with the 3rd when it was done to see the process and help but never alone
- 44. Pumping bilges from steering gear to FWD bilge holding tk, you cant get suction what is wrong
- 45. Type of bilge pumps
- 46. Different types you could have positive displacement, roto dynamic
- 47. Difference between them
- 48. What would be on the outlet of a positive displacement pump tried to avoid saying safety valve in case he was leading me into something but had to say it
- 49. Can you operate these pumps with the discharge valve shut said yes to both, but would never to is with a positive displacement as the safety

- v/v would lift and spray bilges everywhere and can do for roto dynamic to build pressure but I can cause cavitation
- 50. How a seal is made on a pump said mechanical and he wanted more was drawing a blank he said packed gland
- 51. Asked how packed glands are fitted
- 52. How tight they should be
- 53. What are the dangers of over tightening
- 54. What is a pump impellar made of
- 55. What is brass, bronze
- 56. You had HT and LT cooling talk me through it
- 57.So how was lube oil cooled?
- 58. Was sea water an fw ever in contact
- 59. How were the separated
- 60. Difference in HV, LV
- 61. Did I ever work on the HV system
- 62.440v system
- 63. Electric motor isolation
- 64.Test the motor
- 65.Readings
- 66.Draw me a star circuit
- 67. Where are you testing across and why
- 68.Readings again

I really made a balls up of the testing, but he guided through and tried not to confuse me about it, thought o had failed at this point but he must have been happy with the isolation process

- 69. You had PEMS, type of motors
- 70. How they work
- 71. Sync a generator
- 72. Read my FW production report, talk me through evap and RO plant
- 73. Operation what was BTT? What else are you changing on the panel
- 74. How is FW treated before it is drinkable
- 75. What the FW tests are
- 76.BA checks
- 77. Emergency duties
- 78. Was I ever aprt of fire team for drill
- 79. Fixed fire fighting in engine room
- 80. Fixed fire fighting in accom.
- 81. How to test sprinkler heads

- 82. Explain sprinkler system top up pump, mian pump etc
- 83. Explain CO2, how to operate
- 84. Explain water mist, how to operate, how to test
- 85. What is section valve
- 86. How is pressure maintained in the system
- 87. What happens when pressure drops
- 88. How is pressure drop measured
- 89. Principle of CO2 and Water mist
- 90. Where were life jackets kept
- 91. Features of life jacket
- 92. Talk to me about M notices
- 93. What are MGNs
- 94. What have you read recently MLC
- 95.Tell me about MLC
- 96. Hours of Work and Rest

This is all I can remember at the moment, if I remember anymore I will pass them on. Got a bit of a grilling on most of the stuff I really wasn't confident on but the guy was patient and did help guide you to the point he was looking for. Good Luck.