



UK MARINE TRAINING CENTER (UMTC)

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Class 1 Oral's Questions

Date: 24-Feb-2023

Examiner: Bill Blyth

Candidate name: Rajesh Kumar Kannan

Duration: 45 mins

Result: Pass

1. As a chief engineer, what is your duty onboard (explained fully about the ISM aspects of the chief engineer)
2. You are to take the main engine performance- what all parameters to check- started with all the safety procedures and environmental conditions- then went to explain about the performance data sheet- all the parameters, explained more on the formula PLAN- explaining about calculation of P-V diagram, explaining the formula for calculating P-mean until calculating the mean effective pressure= effective power
3. You have one of the main engine units due for overall, how will you come to know- explained about the class status report, CMS and PMS systems onboard
4. What is technical file- first gave the definition of NOx technical file and explained in detail about the NOx technical file including all the contents in the file and of all the NOx components
5. Boiler survey- only about safety valve testing- how do you set the safety valve and carry out (explained about the procedure for adjusting the safety valve, I missed the gagging of the other safety valve, so he only went to the next question after I said about that), also about the accumulation pressure test of the boiler
6. you have small amount of moisture in the refer system-how to you manage, remove- started and explained about the how the moisture in the refer system is detected including the TEV working principles and how moisture affects the TEV, what are possible sources of moisture entering the system, then about pumping down the gas. Then how to remove the moisture- using the vacuum pump including the sealing tests, renewal of the lube oil, then renewal of the gas and so on.
7. Lube oil analysis- with respect to main engine lube oil system analysis, what will you find in the lube oil analysis report. (explained about the purpose of lube oil analysis including all the parameters checked, the particle index, how the particles index relates to the engine components, particle count if required)
8. Cross question- your viscosity is high in lube oil analysis- what are reason for the for viscosity to increase- explained about possible contamination with fuel.
9. Definition of TC Surging (when the delivery pressure of the compressor falls below the scavenge air pressure, then Turbocharger surges. Cause of turbocharger surging- gave all the possible reasons.
10. Emergency generator- how does it come online when there is a power failure (explained about the emergency generator Solas requirements and sequence of auto starting)
11. As a chief engineer, you have a survey to be carried out on the main engine (Scenario – main bearing survey- how will you go about it (explained full procedure of dismantling, inspection and assembling of the main bearing including all the safety procedures).