

VISHWANATHAN (USHAVISHU IYER) SIR MUM NOIDA

1st july 2021

Mumbau

Meena sir

Vishwanathan sir

Motor and mep combined

Company type of ship grt

Me&ae specs

Type of governor

Shaft generator

How clutched in

Safety cutouts

Lubrication in sg fittings on sg

Shafting arrangements Cpp

Purifier.. what part of gravity disc decided the interface wanted to know whether outer dia inside dia or thickness

Bulk handling compressor

Fwg..Location of salinometer y temperature compensator

Result both repeat

Without seeing the connection how to distinguish the discharge nd suction line of bilge pump from pressure guage

He asked particularly from your own ship

So just see through ur engine specs and all

01 july

Mumbai mmd

Meena

ushavisu iyer

Motor

Main engine specifications

Meaning of the nomenclatures

Which is the hardest part to lubricate in main engine and why ?cross questioning

And how lubrication and what type of lubrication

Which filter has (fo or lo)more meshing and why ?

Why centrifugal pump has wear ring?

Mep

Auxiliary engine specs

How many suction vlv and exhaust vlv for one unit

About tappet clearance

Which vlv has more tappet clearance and why more

Boiler guage glass showing correct level of water or not how will u check and if low water what will happen and what actions will u take

Turbocharger filter dirty how will u come to know

Efficiency of turbocharger how will u get to know (rough estimation without any calculation)

Steam gasket which type will u chose from workshop? which gasket is more suitable

How will u replace the gasket in the flange of the steam line?

And some more

Got both 

accepted answers... thanx to the man

Which part lub hard

Cross head

Reason is because there is no reversal of load.. and oscillation is short ...

When the engine is stopped that time there is boundary lubrication.. and when the engine attains minimum rpm.. the oil film enters between the shaft and the bearing and shaft lifts up no more metal to metal contact... This is hydrodynamic lubrication .. than I explained him about the hydrostatic lubrication where u make use of external pump

lo fo mesh

Bhia ye more meshing wala I am not sure.. I said lo to which he gave me a look .. he knew I wasn't sure.. and than he asked why..I said something than he asked me about the fo viscosity while injection..Yeah I said...12 cst

which has more tappet

Yes bro exhaust and why because it is exposed to more heat than he asked me how I said.. when the valve opens it comes down so more contact with the exhaust gases and than he asked what will happen if more heat I said.. thermal expansion will be more .. to which he said good

Boiler question correct level

Guage glass blow through kar k dekhenge ki sahi water level dikhara hai ya nai ..fir agar low hai toh stop firing the boiler and wait for it to cool down don't fill water immediately..

turbo eff.

Monometer se pata chal jayega turbocharger ka air filter dirty hai toh

Efficiency.. ul get rough idea by looking at turbine intel and outlet temp.. ul come to know how much heat energy is converted to pressure energy..

how to replace gasket

Wire mesh gasket is used for steam lines

Kuch ni bhai.. bus basic puchra tha ... I said isloate steam line... If vlv are not holding than close the main steam stop vlv.. and drain the steam from the line if any.. and replace

01/07/2021

Mumbai MMD

MEENA

USHAVISHU IYER/VISHWANATHAN

Function 5

Safety of Msb

Mathematical representation of KW and KVA

Lead acid battery maintenance

Pump room electrical safety

Steering motor safety

How steering motor is differ from all other motors? Over current trip is fitted or not on steering motor?

Got Fn 5

1/07/2021

mumbai

Internal- Meena

External-Ushavishu Iyer

Fn4b and 6

Type of ship.

Maker

Why use Tie rods

Is auxiliary engine has tie rod or not?

Which turbocharger you have on Main engine?

Maker of turbocharger.

Lubrication of ME turbocharger.

How to detect if piston gland(stuffing box) of ME is faulty while running?

Why use after cooler in Main Air Compressor?

Why care about density when we need only 30 bar pressure?

Relation between ME crankshaft and camshaft rotation?

Why refer air compressor making noise during starting.

Fn 4b pass

Fn 6 repeat

01/07/2021

Mumbai

Internal: Meena

External: Vishwanathan

fn 4b, 5, 6

4b

- **type of engine (mine was ME)**
- **how fuel injection takes place**
- **hydraulic pumps and cross questions**
- **how to know crankcase oil level in AE. smoke coming out of dip tube. how would you know which unit blow past is happening.**
- **approx length of tie rods. what arrangements are provided to prevent vibrations in tie rod?**
- **in st/gr, when only one pump is in use, how is the standby pump prevented from rotating in opposite direction?**

- what type of pump in ME engine supplies the hydraulic pressure? and how is the pressure varied?
- arrangements provided to avoid excess pressure buildup inside scavenger air receiver? lifting pressure of the relief valve?

5

- how would you get to know an induction motor is fit?
- why brushes are made of carbon and not of Al or Cu?
- Which system you had on board, 3-wire or 4-wire? which one is more safer?

forgot the rest

6

- what was the normal operating pressure of your boiler?
- what kind of turbine was there in your COPT?
- If you want to test a standby Main lube oil pump, while one Main lube oil pump is running, how would you do it?
- How to repair cracked bonnet of a valve made up of cast iron?
- As a duty engineer, what would you check in the engine room crane, while the ship is leaving the port?

forgot the rest

Result: 4b, 5

01/07/2021

Mumbai mmd

Meena sir

Vishwanath

3,5,6 functions

3

Purifier fire actions

Co2 bulk system

Roro ship bulkhead system

Fse

Corrugated bulkhead increases which strength specifically of b/h

Engine room crane electromagnetic brake releases how ?

Co2 bulk system co2 carriage in what form in pipe ?

5

2 Genny one 350kw other 250kw loaded is it ok conditions? Why such situation ?

Pressure switch setting of hydrophone how to do. What are values

HV system neutral point earthed? Why ? Ner ?

6

Fuel injector testing , fuel injector valve dia. Value

Ballast pump loses suction during deballast, actions ? And indications ?

Steering gear checks before leaving port

Safematic? Idk what he was asking exactly. 🤔 steering gear system ..

Bilge injection valve testing

Bilge injection valve Solas regulations

Motor insulation low , what all will you do.

more+

got 3 and 6

01/07/2021

Mumbai

Meena

vishwanathan

Motor

Ship specifications ?

Mcr NCR power ?

Cam and crankshaft relative motion?

Y break is used in purifier?

How distillate pump take suction when condenser in vacuum?

Engine bar speed range?

Pass

on windlass?

05/08/2021

4b & 6

Manjhi sir

Vishwanathan Iyer

Ship type(offshore)

Engine type

From engine to propeller what arrangements was there.

CPP...how pitch rotates

Crankshaft to camshaft relation...how many gears

Lubrication system for that.

Filters were there for L.O and F.O, tell me which of the filter was smaller micron filter.

Turbocharger

Reduction gear ratio why it is in ratio

Shaft generator

MEP

Shell and tube type heat exchanger

Tube material

Colour of tube

AE crankcase level checking ...smoke coming out from there why

Bilge pump questions

3 phase motor single phasing how to know if ur not there

What & how many things u can do with a ball pin hammer.

Boiler gauge glass blow through

Boiler water test

Chloride ppm

If more how to control

How many drain valve is there in boiler

Motor pass

Mep repeat

Air in refer system how to remove it

Explain process

How a MAC starts on auto mode

Include this also

Unloader activates how

05/08/2021

Int. Manjhi.

Ext Vishwanathan iyer

Safety

First listen question properly

Safeties in ig to prevent back flow of gases

Chain locker location

Mob marker, how different from simple lifebuoy ,what color of light it have

As per solas how much co2 is required of e/r in fire (don't tell formula to calculate no. Of cylinders)

Failed

05/08/2021

Noida

Manjhi sir

Vishwamathan sir

Types of ship

Company and Pre Sea training

Safety

***Coffin Plate**

***Draw plimsoll marking (paper pen)**

***Thickness of plimsoll marking of dimensions**

***Vent for double bottom.and location**

***material of anchor**

***Why ships are provided with different draft condition**

ELECTRICAL

***One gen running at @350 KW other @250 KW ? is it ok? what will u do**

***Boiler water low level test**

***Transformer maintenance**

***sea water flooding in motor how to revive**

***How to test standby lub oil pump**

***NER why**

***How to know motor is healthy**

Got Electrical

05/08/2021

Noida

Int. Manjhi.

Ext Vishwanathan iyer

The type of ship

The disadvantages of double hull .

The various loads on emergency bus bar .

The checks to be carried out in engine room during ILLC survey .

What all double bottom checks are to made during ILLC survey .

The different loads on esb .

The insulation reading of new motor .

How will check the insulation of the motor

The value of voltage generated in the megger .

Shaft earth method what will happen is not done and the unti of current and voltage measured across it .

Cleared both

Thankyou saheem bhai .

05.08.2021

Noida

manjhi sir

Vishwanathan Iyer sir

Safety and electrical

*** integrity of Water tight doors**

*** How will you know that priming arrangement for emergency fire pump is working satisf...**

*** Smoke detector working**

*** About CO2 room (said about ventilation, 56 bar at 20c, relief valve , air connection, emergency connection)**

*** Regulation for CO2.**

*** Types of keel.**

*** Emergency steering.**

*** Steering gear electrical safety.**

*** How to check Insulation resistance of induction motor.**

***MSB safeties.**

***Pressure switch**

*** Rest forgot**

05-08-2021

Internal -manji

External -Iyar viswanatha

Engine type

MCR(defination and value)

NCR(def and percentage on my ship)

Generator type

How fuel is controlled (he wants to listen helical groove in plunger)

Turbocharger manufacturer name.

Turbocharger lubrication.

Why header tank.

.If in hydrophore frequently cut in cut off.reason

Why use vane type pump in steering system.

Sea water pump gland is leaking action to be taken.

09/08/2021

Internal - Ashish Wankhede sir

External - Vishwanathan Sir

(50- 60mins)

Type of ship you have sailed on ?

Contract length, Company and pre sea training institute name.

Motor

Which type of propulsion

Propulsion Motor Safety , Each motor power and how it's started.

Motor power factor and type

Shaft Power and Rpm

Type of Engine

Engine Specifications

If V type of Engine, you have one connecting rod or two. How con- rod is driving both units.

Which type of bearing - Thick Shell or Thin Shell

Where is Thick Shell and thin shell bearing used.

If you overhauled cylinder head and brought it to workshop , how will you identify which is suction and exhaust valve.

In air compressor , what is the difference between suction and exhaust valve.

Tell me about construction of fuel pump and all parts of fuel pump

Is there any delivery valve present in fuel pump, purpose of the delivery valve .

How fuel is supplied to engine ?

How meat room temperature is maintained at -15°C while your dairy room temperature is $+4^{\circ}\text{C}$, by the same refrigerant.

How would you measure the oil level in crankcase .

When using dip stick what does it tells you , unit ?

The measurements on dip stick , are in which unit (mm,cm , or m)

Consumption of Cylinder oil per hour and per day ?

Which engine has more Cylinder oil consumption 2 stroke or 4 stroke ?

Compression Pressure of Your Generator engine .

STEAM

Boiler specifications

Purpose of Superheater

Pressure inside boiler

Pressure of Superheated steam

Economiser ?

How to check boiler water level , if by gauge glass then how ?

How many blowdown valves per boiler

Tell me about boiler blowdown procedure

Why do you open inboard valve first, what happens if opened later ?

What is specific name of wear that takes place at valve ?

Turbine specifications

No. Of stages in each turbine.

What is the purpose of gland seal ?

Where gland seal supplied in turbine ?

How's it's flowing through, pressure ?

Labyrinth seal

MEP

How would you change a gasket in the flange of a SW pipe if the gasket has worn out .

In shell and tube type heat exchanger , how will you come to know if heat exchanger is fouled.

If ballast pump has stopped taking suction or if the tank level has dropped, how will you come to know and what will be your actions.

In a centrifugal pump , if we use gland packing , how we prevent shaft from erosion .

In purifier , at one time my oil is coming out with water and another time water is coming out with oil , what is the problem ?

If the grade of oil being used is same , why would you encounter the above problem ?

And few more I don't remember !

Cleared All 🙌

***MEP ACCEPTED ANSWERS* *```Thanks to the wise man*```**

1.How would you change a gasket in the flange of a SW pipe if the gasket has worn out .

1. I told him that first I will check the thickness of the gasket material, type of gasket material.

And then I will take the old gasket and draw it over a new gasket material .

And prepare the flange by cleaning it properly and then fit the new gasket .

(He just wanted to hear this much)

2.In shell and tube type heat exchanger , how will you come to know if heat exchanger is fouled.

2. In this I told that one method is by checking differential pressure

And secondly I will check the temperature of SW it will drop and the JW OR FW outlet temperature would rise , more than normal as it won't be cooled properly .

3.In a centrifugal pump , if we use gland packing , how we prevent shaft from erosion .

3. I just told him we put a sleeve in the way of packing and he was happy with this answer.

4.In purifier , at one time my oil is coming out with water and another time water is coming out with oil , what is the problem ? If the grade of oil being used is same , why would you encounter the above problem ?

4. I told him first of all there might be a problem with the gravity disc, if the size is small then water will carryover with oil And if the disc is large the oil will carryover to water outlet .

And now if the gravity disc is same and grade of oil is also same, then there is the problem with temperature and density of the fluid.

We are not heating the fluid properly so proper interface is not forming as per the gravity disc used .

5. what could be the reason for water coming in gear box side of purifier.

5. I said water can enter from the bowl side when the O-RING leaks. Due to clearance around vertical shaft...

31/08/21

Int Ashish wankhede

Ext vishwanathan

Steam

1. Boiler specifications
2. Turbine specification
3. Purpose of condenser
4. Vacuum maintained at condenser
5. Boiler water tests and procedure
6. Safety valve overhaul

Motor

1. Main engine specs
2. Jacket Cooling water system, asked to explain
3. Asked to explain pulse lubrication system
4. Injector maintenance

Mep

1. Purifier type
2. Diff between clarifier and purifier
3. Type of discharge system
4. Bilge high level in your watch, actions
5. Oil in Howell, actions
6. Compressor specification
7. What is meant by tandem compressor

few more forgot

Cleared steam and mep

Motor repeat

31/08/2021

ashish wankhede sir

Mr. Vishwanathan sir..

MOTOR MEP

- type of vessels you have sailed.
- which Main Engine and Aux. Engine.
- M/E c/case inspection
- How will you take Crankshaft Deflection.
- How to take Bottom end bearing clearance.
- M/E is battery/Air starting. Engine is not getting started, what could be the problems.
- Lube Oil properties and on board test.
- Reasons for c/case explosion in 4-stroke engine.
- Reasons for blow past and what will be your action.
- Some cross questions about piston rings and liner, liner callibration, etc.
- Centrifugal pump not developing sufficient pressure, what could be the problems.
- Hydrophore pump is getting cutin/cutout very frequently, what will you check and actions.
- Some questions on electricals also that I didn't remember.

Ext Vishwanath

Int Ashish

MOTOR MEP

- 1. ME Nomenclature**
- 2. Why connecting rod not coupled with piston in ME**
- 3. Total number of bearings in one cylinder unit.**
- 4. Intermediate shaft lubrication**
- 5. Tie rod function. A/E present or not?**

6. Reefer unloader valve qstn (confuses a lot)

7. Bunker tank to settling tank transfer. What type of pump? Can't centrifugal pump be used?

8. ME LO pp discharge side pr gauge flickers. Reasons?

9. How would you know that coolers efficiency has reduced?

Rest, I don't remember.

Will let you know.

MUMBAI

31/08/2021

Vishwanathan sir

Ashish sir

Function 3

1.T.P.C.

2. Bilge keel

3. Fixed fire system on board

4. Co2 room requirements

5. Fire plan

6. Different alarms in engine room

Function 5

1. Power factor and little basic questions.

2. Preferential trip

3. How to parallel generator

4. How to do continuity test.

Few more questions I can't recollect

mumbai

Vishwanathan sir

A Wankhede sir

Motor and MEP

1. ME AE Nomenclature

2. Lubrication in ME ,timed untimed?

3. Material of crosshead, bottom end and main bearing

4. How to take tappet of running AE?

5. AE all unit crankcase door leaking (small leakage), why what will you do?

6. Turbo charger filter fouled how will you know?

7. What is the process in Air compressor?

8. How cooling is decided in evaporator?

9. Bilge pump not taking suction from aft bilge well,why?

10. How to measure butt clearance in piston ring?

Result- Repeat all

31/08/2021

Wankhede sir

vishwanathan sir

Electrical

Pump room electrical safety

Generator rating and voltage control

Grade of insulation

Squirrel cage motor vs wound rotor motor

Batteries charging

Thermistor vs thermostat .

And more questions

15/11/2021

Function 3

MMD- MUMBAI

GAURI LAL MEENA Sir

Ushavisu Iyer sir

Type of ship sailed

All functions full form

What is ip

Co2 system explain

co2 bottle safeties

Co2 system arrangment

Hyper mist system explain

Solas chapters

Marpol

Annex 6 discharge criteria

Ows working

Fire in work shop what will your action

Life boat launching

Emg lighting check

What is Caba compressed air breathing apparatus

Bunkering procedure

RESULT- Pass

15 nov

MMD MUMBAI

Mep motor

Internal - meena sir

Extr - ush(chenn@i mmd)

Type of ship

High voltage x question (mep motor may high voltage 😬)

Indicator cook leaking

Rta and rt- flex difference

Gen. Specifications

How much it can generate power

X question

Air compressor efficienc

low many x question

Few more....

Asking many things from electrical

Mep pass

15/11/2021

Safety

Internal : Meena sir

External: Iyer sir

Which type of ship

-MOB alarm

-Saturday routines

-Check on steering gear

-Fire safety plan where is it kept and why is it kept there

-Fire station what all things are there explain

-which fixed fire fighting system on board.

-Block coefficient

-Prismatic coefficient

-Theoretical speed

-pass 😊

Ashish wankhede

External- viswanathan sir

Function 5

1.advantages of high voltage system

2.What is proximity switch and limit switch and difference between them

3.What is thermistor and where it is located on motor?

4.ER crane safeties

5.Three lamp method of synchronizing full

Wankhede sir

vishwanathan sir

- Thrust block

- How to identify an alarm in the engine room.

- how is a ship moving in water. What is the propeller doing.

- how do you charge refrigerant

- what is automatically controlled in an ME engine.

- what is demisters

- boiler gauge glass blowdown

- difference between LO of Ae and ME

Both passed

Wankhede sir

vishwanathan sir

Tpc

Type of resistance

Fixed fire fighting system

Type of ship ...which type of gas carriercargo temp

Engine type

Fire in purifier room in your watch

Centrifugal pump are not self primed why

Pump gland leaking what ll u do

Type of starter

Type of governorgovernor maker

Me just started what all u will check

07 dec

Wankhede sir

vishwanathan sir

Motor & Mep

Type of ship

Mc-c and mc engine difference .why is mc-c compact , what things have changed

Trips and alarms of copt

Calibration of o2 analyzer

What is between receiver and expansion valve in domestic refrigerator?

What is purpose of AE crankcase vent ? Is vent there?

What absorbs moisture in refer. Plant?

What is min. And max. Thickness of feeler gauge.?

What risk are associated using feeler gauge?

What will u do if feeler gauge breaks inside bearing?

7/12/2021

MMD Delhi

wankhede sir

Vishwanathan sir

4b and 6

How camshaft is driven?

Relative speed between camshaft and crankshaft for 2s and 4s engine?

What is thrust bearing?

Purpose of tale tell hole?

How to change purifier to clarifier?

What checks carried out before starting AE?

Why unloaded required in compressor?

How does unloader work and when does drain unloader open and close?

6 passed 4b repeat

Internal : Ashish Vankade

External: Vishwanathan Iyer

1. Type of ship

2. Deadweight of my ship

3. BDN what all there in document and what are specifications of fuel mentioned in it

4. Marpol 1,4,5,6

5. Oil discharge criteria for engine room in spcl area

6. Oil discharge criteria for cargo

7. Orb part 1 entries

8. Certificates in annex 6

9. Importance of NoX technical file and what all entered in Nox technical file

10. Rescue boat regulations

11. Things carried in life raft and its capacity

12. Working of IG

13. PV breaker and PV valve difference

14. Liquid in PV breaker

15. Solas chapters 9, 11 and 12

16. Objectives of ISM

17. Code for solas chapter 11 and certificate issued for that code

18. Collision bulkhead position and its purpose

19. Free surface effect

Result: Pass

Mumbai

Vishwanathan iyer sir

Safety:

Bdn

Objective of ism

Nox technical file

Which annexes applicable on board

Orb how many

Explain one entry

Solas chapter name randomly and which code comes under it

Electrical:

Battery room entering precautions

Gasses produce in battery room

Fan exhaust or suction, emergency gen req .

AVR working and principle, alternator maintenance

Wankhede

Vishwanathan Iyer

Function 3

Safety..

1.wt is dead weight,GT,nt

2.wt is garbord starke

3.wt is safe matic system of steering gear .

4.why time delay in CO2 system....,CO2 alarm is general alarm?... difference between high pressure and low pressure....of CO2.

5.wt are the pollutants in the annex 6.

6.difference between watertight and whether tight doors.....and where u test ..water tight doors...

7.block coefficient

8.free surface effect

9.Marpol 1 4 6

10. Orb entry and explain

11. Working of igg

12. Rescue boat regulations

Aur bhul gaya bhai

Coc 🙏

Internal - Ashish Wankhade

External - Vishwanathan Iyer

1. Type of ship

2. DWT of my ship

3. Marpol annexes applicable on ur ship

4. Annex 1, 6 certificates

5. ORB part 1,2

Entries, signed by who

6. NoX technical file

7. Life boat and rescue boat differences

8. Solas chapters 14,13,11,9,2

9. Certificates and codes in chapter 9

10. Objectives of ISM

11. ISPS, levels in ISPS , who sets the levels

12. Collision bulkhead

13. Margin line

14. Loadline

15. Garbage Management plan - 2 new classes

16. Fire fighting system used on deck

Foam type

17. Fixed fire fighting system in engine room

18. Hypermist system

Result – Pass

Internal sreenivas prasad

External iyer vishwanathan sir

3

Type of ship

LfL

UfL

HC limit in cargo tank

Working of propotioner

Deck foam regulation

Emergency power requirement

No of regulations in annex 6

Annex 6 pollutants

Annex 6 special area

ECA

5

Kw kva kvar

Synchronisation of generator

Equipment used to measure ir

unit of IR

6 jan

Noida

Int purna manjhi

Ext vishwanathan Iyer sir

Starter and types and cross questions

Battery maintenance and lead acid battery related

Thermostat and thermistor

Brushless alternator regarding

What if one cell in battery is defective

Emergency DG and related questions

Thanks brother

Pass

Int Purna Majhi sir

Ext Vishwanathan sir

Function 6

1) O2 content in analyzer increase.. actions.

2)Boiler water tests

3)Chloride high..why and action

4)Main bearing clearance. Precautions for feeler. What to do if feeler breaks inside.

5)Main engine indicator cock leaking. Actions

Some more i forgot

PASS

Electrical

year sir(ext)

Manjhi sir(ent)

Parlleling of generator

Alternator specification

Diff between kw and kva

Emergency generator regulations

Load connected on esb

Ner

Internal : Subaroa

External : Umashankar

Subject : Motor

1) Type of Ship

2) Engine Type

3) Crosshead Lubrication

4) Types of Boilers

5) Safety in Smoke tube boiler

6) Fusible Plug

7) Soot Blowing procedure

8) Sub-cooling

9) Superheat

10) Checks and procedure followed prior starting Main Engine

Internal : Subaroa

External : Umashankar

Subject : Motor

1) Type of Ship

2) Engine Type

- 3) Crosshead Lubrication
- 4) Types of Boilers
- 5) Safety in Smoke tube boiler
- 6) Fusible Plug
- 7) Soot Blowing procedure
- 8) Sub-cooling
- 9) Superheat
- 10) Checks and procedure followed prior starting Main Engine

22/02/2022

Mumbai MMD

Fun-5: electrical

Int: sudhakar

Ext: vishwanath eyer

- 1) Lead acid Battery maintenance.
- 2) what will you fill in battery. Specific gravity value?
- 3) MGPS
- 4) how will u know insulation condition.
- 5) explain megger.
- 6) IR value
- 7) alternator safties.
- 8) bus bar material.
- 9) diode & where u use.

Electric cleared 

Thank you guys

Internal-sudhir sir

External-ushavisu iyer sir 🙏😊

- 1) grt of u r ship
- 2) emergency fire p/p regulations.
- 3) type of co2 alarm how u know that co2 alarm it is?
- 4) scaba checks
- 5) cofferdam location
- 6) purifier fire
- 7) forgot
- 8) primsol line

Result -pass

Thanks saheem bhai 🙏😊

Mumbai MMD

21/03/2022

First attempt

Function 4b &6

Int :Meena sir

Ext: Iyer sir

Motor

- 1) Type of ship
- 2) Specifications of main engine
- 3) what is pcomp and pmax of your engine.

4) What is MCR and NCR

5) What is Vit

6) cross question how does vit increase the efficiency (My answer was not very satisfactory do i asked him can i try again. He said try, but wasn't satisfied even then

7) What tests do we carry out on GE lube oil.

8) Boiler water tests and relationship between p alkalinity and t alkalinity. Asked the reason for this.

MEP

1) Type of compressor

2) Why do we use 2 stage compressor

3) How does unloading work in Refer.

4) What type of cargo pumping system on ship. What was your boiler capacity

5) Why was the boiler capacity so huge (i said heated cargo)

6) Aft bilge well transfer to bilge holding tank. What all checks will you do. Cross question, what if the suction pressure is negative. What if the level is not going down.

7) What is NPSH

8) What factors lead to loss of suction of a pump

Thank you HATC team

External: Iyer

Internal: Gauri Leela Meena

Function 3 and 5

ELECTRICAL

1. Type of ship
2. Power rating of M/E , specification of M/E (cross ques)
3. How to test the Megger calibration (working correctly or not)
4. Alternator specification (cross ques)
5. MSB safeties (cross ques)
6. 440 V earth fault alarm. What action will you take ? (Cross ques)
7. Fire on the electrical panel. What will you do? (Cross ques) (plz mention first you will isolate the system)
8. All the trips for the Alternator ?

SAFETY

1. Which type of fixed fire system onboard your ship?
2. Requirement of CO² and weight of the CO² in a bottle, checks to be done in CO² room? (Cross ques)
3. Why we have self closing sounding pipe in double bottom tank? (Cross ques)
4. Fire plan and all the items included in it ? (Name everything)
5. TPC ? Factors affecting TPC (Cross ques) didn't accepted the Clyde's note ans
6. Annex 6 certificates (cross question)
7. NOx technical file ? Name the pollutants (All of them) ?

Few more don't remember.

Iyer sir wishes to know all the points related to a ques & ans atleast the most you can answer.

Not satisfied with the points.

Result : Both repeat

[3/21, 2:25 PM] Ms: External: Iyer

Internal: Gauri Leela Meena

Function 3 and 5

ELECTRICAL

- 1. Type of ship**
- 2. Power rating of M/E , specification of M/E (cross ques)**
- 3. How to test the Megger calibration (working correctly or not)**
- 4. Alternator specification (cross ques)**
- 5. MSB safeties (cross ques)**
- 6. 440 V earth fault alarm. What action will you take ? (Cross ques)**
- 7. Fire on the electrical panel. What will you do? (Cross ques) (plz mention first you will isolate the system)**
- 8. All the trips for the Alternator ?**

SAFETY

- 1. Which type of fixed fire system onboard your ship?**
- 2. Requirement of CO² and weight of the CO² in a bottle, checks to be done in CO² room? (Cross ques)**
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Few more don't remember.

Iyer sir wishes to know all the points related to a ques & ans atleast the most you can answer.

Not satisfied with the points.

Result : Both repeat

[3/21, 8:26 PM] Ms: Mumbai MMD

21/03/2022

First attempt

Function 4b &6

Int :Meena sir

Ext: Iyer sir

Motor

1) Type of ship

2) Specifications of main engine

3) what is pcomp and pmax of your engine.

4) What is MCR and NCR

5) What is Vit

6) cross question how does vit increase the efficiency (My answer was not very satisfactory do i asked him can i try again. He said try, but wasn't satisfied even then

7) What tests do we carry out on GE lube oil.

8) Boiler water tests and relationship between p alkalinity and t alkalinity. Asked the reason for this.

MEP

1) Type of compressor

2) Why do we use 2 stage compressor

3) How does unloading work in Refer.

- 4) What type of cargo pumping system on ship. What was your boiler capacity
- 5) Why was the boiler capacity so huge (i said heated cargo)
- 6) Aft bilge well transfer to bilge holding tank. What all checks will you do. Cross question, what if the suction pressure is negative. What if the level is not going down.
- 7) What is NPSH
- 8) What factors lead to loss of suction of a pump

Thank you HATC team

[3/24, 12:31 PM] Ms: Safety

Iyar sir

Free surface effect

Scaba checks

Fixed fire fighting system used on board

Tpc

Fire in workshop action

❤️❤️ Pass zalo

Devacha dev manus

[3/24, 12:33 PM] Ms: Manjhi sir x Iyer Sir

Safety

Solas – Marpol Annex VI

Plimsoll marking

How steering motor is differ from all other motor? Overcurrent trip is fitted or not on steering motor?

Bilge keel

Fixed fire fighting system

DB tank vent pipe location ? Reason?

Steering gear Safeties

Fire Control Plan x questions

Electrical

No Alternators

Safeties & Maintenance

AVR – Working

Parallel operation

Why Carbon Brush Is Used In Motor, Why Not Copper Brush

Both repeat

Ext : Vishwanath Iyer sir

Int :. Shrivastava sir

Function 3

Type of ship

Why voltage only given in 440v 220v 110v not in 125v 135v???

How Many alternator on board??

Emg generator regulations

Equipments it supply power to

Thermistor & Thermostat difference

Why star delta provided??

How Star to delta, open Transition, why star at start??

Motor protection

Why fuse is provided even when overcurrent trip is there???

Fuse types & how to order on-board??

Alternator trips

Desider by Internal:

Undervoltage trip on alternator?? Purpose of it other than tripping on undervoltage??

Pass