

V – Diesel Locomotives

Descriptive:

1. Write various compartments available in WDM-2 Diesel Locomotive?
2. Write various mechanical systems available in WDM-2 Diesel Locomotive?
3. Write various components available in Fuel oil system?
4. Write the reasons for fuel oil pressure not building up in WDM-2 Diesel Locomotive?
5. What are the various components available in Lube oil system?
6. What are the reasons for lube oil pressure dropping?
7. What are the various components available in cooling water system?
8. What are the reasons for “Booster air pressure” not building up?
9. What are the reasons for MR pressure not building up in WDM-2 Locomotive?
10. Write the reasons for “engine not cranking” after closing all breakers and when pushed the START button?
11. Write the reasons for “engine cranking but not firing”?
12. Write the reasons for “engine shutting down automatically”?
13. Write the reasons for Load meter not responding on WDM-2 Locomotive?
14. Write the reasons for Engine RPM not rising as per the throttle notch?
15. Write down the occasions for not using of Dynamic brake?
16. What safety devices are provided on WDM-2 Locomotive?
17. What safety fittings are provided on WDM-2 Locomotive?
18. What are the tests to be conducted for WDM-2 Loco before leaving shed?
19. Write the reasons for vacuum not creating in Diesel Locomotive?
20. Write the procedure of releasing of braking binding on an air brake coach / wagon?
21. Write the procedure of resetting the ACP?
22. What safety items are provided as spare for WDM-2 Locomotive?
23. What are the various cut out cocks provided WDM-2 Loco and their normal position?
24. What are the various drain cocks provided WDM-2 Loco and their normal position?
25. Write various valves names that are provided in WDM-2 Locomotive?
26. Write the reasons for hot engine alarm?
27. Write the reasons for Turbo back pressure (surging)?
28. Write the reasons for brass spindle not projecting?
29. Write the reasons for booster air pressure dropping or hauling power poor?
30. Write the reasons for expressor oil throwing?
31. Write the reasons for MR pressure not maintaining in WDM-2 Locomotive?

Objective: (fill in the blanks):

1. Purpose of main generator in Diesel Locomotive is _____ and _____.
2. If auxiliary generator fails _____ indication will come and work for _____ hrs. and engine should not be shutdown.
3. In one & third (1st & 3rd) transition _____ relay will pick up and _____ contactors will close?
4. To pick up R-1 contactor _____ switch to be closed and there by _____ will start working.

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5. SAR relay is located in _____ type of Locos and ERR is located in _____ type of Locos.
6. On run if pinion slips, _____ relay will operate and if traction motor cable rubbed with loco body _____ relay will pickup.
7. Expand E.C.C. _____.
8. On run if CCE motor fails _____ problem will come.
9. OPS picks up at _____ and drops at _____ of oil pressure.
10. During dynamic braking _____ valves avoids loco brakes application
11. If ECC fails _____ will not work and _____ safety device will operate.
12. Pressure cap assembly is fitted on _____ expansion tank.
13. For charging the BP pressure, MU2B position is _____ and $\frac{3}{4}$ th BP COC is _____.
14. For feed pipe, the air supply is coming from _____ reservoir through _____ valve.
15. The purpose of batteries in Diesel Loco is _____ and _____.
16. In WDM-2 Loco, the idle RPM is _____ and 8th notch RPM is _____.
17. In WDM-2 OSTA tripping RPM is _____.
18. Water is cooled in _____ by _____.
19. 20 PSI bye-pass valve, lube oil filter drum and lube oil cooler are located in _____.
20. Turbo supercharger bearing are lubricated by _____.
21. Air is cooled in _____ before going to HP cylinder.
22. Turbo supercharger is rotated by _____.
23. In WW governor locos if tacho generator fails on run _____ problem will be experienced.
24. On run GE governor oil pipe damaged, _____ will be experienced.
25. If 207 card is defective or slack, _____ will fail.
26. Fuel oil regulating valve operating pressure is _____.
27. LWS is located in _____ room.
28. Primary filter is provided between _____ and _____.
29. Dust exhauster motors are provided in Locos having _____ type of air filters.
30. To protect power circuit from earth fault _____ relay is provided.
31. The control air pressure is controlled by _____ valve.
32. Lube oil strainer is located in _____ room.
33. If in series parallel WSR2 and in parallel WSR2 operates _____ TM to be treated as defective.
34. If blower end oil seal is defective, oil leaks from _____.
35. Expressor is connected to main crank shaft by _____ coupling.
36. If engine lifting eye bolt is slack, _____ will drop.
37. The safety device provided in the brake system is _____.
38. If ECC bearing is seized _____ will happen.
39. Load meter not responding check _____ contactor for energisation.
40. If crank case explosion door bursts, _____ action to be taken.

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