

Diesel Locomotives - Fill in the Blanks

1. Foot pedal switch is provided for _____. Purpose of main generators in locomotive is _____ and _____.
2. If auxiliary generator fails _____ Indication will come and work for _____ Hrs and Engine not to be _____.
3. PCS will get knocked out by _____ and _____ valves operated.
4. In one and third (1st & 3rd) transition _____ relay will pick up and _____ contactors will close.
5. To pick up R1 contactor _____ switch to be closed and thereby _____ will start working.
6. SAR relay is located in _____ type locos and ERR is located in _____ type of locos.
7. On run if pinion slips _____ relay will operate and if traction motor cable rubbed with loco body _____ relay will pick up.
8. On run if anyone traction motor defective _____ to be done for normal working and _____ should not be used.
9. Alarm gang will operate for _____ safety devices operated and buzzer will operate for _____ safety device operation.
10. If transition relay (TR) pick up _____ contactors will drop and _____ contactors will pick up.
11. Expand E.C.C. _____.
12. On run if CCE motor fails _____ problem will be experienced.
13. On run if _____ or _____ breaker trips engine will come to idle.
14. _____ Switch is fitted in brake system and it is making _____ relay to operate.
15. During loco running main generator power is used for _____ and during dynamic brake main generator power is used for _____.
16. Auxiliary generator is a _____ excited generator.
17. Mention any two different types of breakers making engine shut down on run _____.

18. During engine starting _____ supply will be feeding for _____ machine.
19. If ECC fails _____ will not work and _____ safety device will operate.
20. On bringing A9 to emergency _____ switch will drop and _____ relay makes engine to idle.
21. If MFPB1 and MFPB2 is defective _____ contactor will not energise and to overcome the problem _____ to be put on. 22. Pressure cap assembly is fitted on expansion tank.
23. For the feed pipe, air is coming from reservoir through _____ valve.
24. For charging the BP pressure, MU2B position is _____ and $\frac{3}{4}$ " BP COC is _____ Position.
25. For making MU operation, the trailing loco MU2B position is _____.
26. After attaching a loco to the air brake formation _____ test to be conducted on formation.
27. Throttle not responding means _____ and load meter not responding means _____.
28. The purpose of batteries in locos is _____ & _____.
29. In between trap and fuel booster pump _____ is fitted.
30. Booster air is cooled in _____ unit by _____.
31. Lube oil is cooled in _____ unit by _____.
32. Lube oil bypass valve setting pressure is _____.

33. For checking the lube oil level in sump ensure engine at _____ speed & _____ motor to be stopped.
34. Between _____ engine block and _____ cylinder head _____ item is connected.
35. WDM₂ OSTA tripping RPM is _____.
36. To cool the water _____ is to be done.
37. If water enters into traction motors relay will operate.
38. On run FPM fails _____ will experience.
39. BK I V energizes during _____ operation.
40. In case of TM isolation, remaining motors are connection in the circuit in _____ combination.
41. Foot pedal switch is provided for _____.
42. In WDM₂ 8th notch RPM is _____ and idle RPM is _____.
43. WDM₂ horse power is _____.
- 44.. WDM₂ lube oil sump capacity is _____.
45. 20 PSI by-pass valve, lube oil filter drum, lube oil cooler are located in _____.
46. Water is cooled in _____ by _____.
47. Brake pipe pressure is _____.
48. Feed pipe pressure is _____.
49. WDM₂ is having _____ number of brake cylinders.
50. Axle box bearings are lubricated by _____.
51. Turbo super charger is rotated by _____.

52. Air is cooled in _____ before going to HP cylinder.
53. Turbo bearings are lubricated by _____.
54. Napier turbo TRD should be _____ seconds.
55. What is the position of MU2B valve for application of loco brake? _____
56. What is the position of BC 3 way cocks in under truck for application of loco brakes?
57. How much brake cylinder pressure is adjusted for application of loco brake?
58. What is position of SA9 cocks in control stand for application of loco brake?
59. If MU locos are parted, through which valve in conjunction brake will be applied in parted loco. _____
60. What will happen if BP and FP pipes are wrongly connected? _____
61. What for foot pedal is provided? _____
62. What is brake cylinder piston travel of WDG3A loco motive? _____
63. What is brake cylinder pressure during in conjunctional brake? _____
64. When loco motive is working as banker, what is position of 3/4 or 1 inch BP cock?
65. What happens if 3/4 or 1" BP cock is in open position when loco motive is working as banker? _____
66. What is purpose of air flow I indicator gauge? _____
67. Which valve plays vital role for application of loco brake? _____
68. Which valve plays vital role for BP charging? _____
69. Which relay will detect the wheel slip? _____

70. During train parting through which relay engine RPM comes to idle? _____
71. Other than A9 if BP or vacuum drops what will happen? _____
72. What is the MPS of WDG3A? _____
73. What is the MPS of WDM2? _____
74. What is the MPS of WDM3A? _____
- 75.. What is the MPS of WDP1? _____
76. What is the MP's WDP4? _____
77. What is the MPS of WDG4? _____
78. Which light to be switched on whenever the train is derailed? _____
79. What the maximum length of wheel flat permitted on diesel loco? _____
80. When hand brake is applied for how many wheels brake will be applied?
81. After how many seconds VCD applied penalty brake? _____
82. What we are supposed to do if loco motive horns are not working? _____
83. What we are supposed to do if loco motive speed meters are not working?
84. What is the brake power percentage of a train, in 50 wagons formation, for 12 wagons brake cylinder pistons are in operation? _____
85. In MU operation if leading loco is failed, Working from leading loco what are the Changes to make? _____
86. What is position of 3/4 or 1" BP cock in trailing loco, when loco motives are working as double headed? _____
87. What happens if 3/4 or 1" BP cock is in open position, when loco motives are Working as double headed? _____
88. What is reason for BP pressure dropping only in A9 emergency position?

89. What is reason for BP pressure dropping from over reduction position? _____
90. How do you secure engine and formation when loco motive shutdown in the section? _____
91. What is safety device provided in brake system? _____
92. What are breakers to be kept in off position to avoid VCD operation in MU trailing loco? _____
93. What is the minimum wheel diameter of wheel in mm? _____
94. What is the max. wheel diameter of wheel in mm? _____
95. What is the height of cattle guard above the rail in mm? _____
96. What is the height of rail guard above the rail in mm? _____
97. What is the height of sander pipe above the rail in mm? _____
98. What is the minimum flange thickness permitted in mm? _____
- 99.. What is the maximum flange thickness permitted in mm? _____
100. What is the maximum root wear in mm?
101. What is the maximum tread wear in mm? _____
102. What is buffer height should be minimum in mm?
103. What is buffer height should be maximum mm?
104. If dead loco BP is attached to formation what is position of MU 2B & 3/4 "BP cock? _____

KEY

1. To crank the engine and to send power to traction motors.
2. Battery ammeter shows discharge; 4 hours; Shutdown.
3. H5A, HB5 4. Field shunting relay, Field shunting contactors.
5. TS1, Radiator fan.
6. GE Governor type, WW governor type.
7. WSR, GR 8. TM isolation, Dynamic brake.
9. LWS, OPS, GR, ETS WSR 10. Series parallel; FSR; Parallel contactors.
11. Eddy current clutch
12. Crank case explosion door opens.
13. MCB1, MCB2 14. PCS, DMR
15. Traction motors & traction motors fields only.
16. Self 17. MFPB, MB2, FPB
18. Battery, Main generator
19. Radiator fan, ETS
20. PCS, DMR
21. Fuel pump, put on duplicate MFPB 22
- Water
23. MR1, F2 feed valve
24. Lead, Open
25. Trail or dead
- 26.. Air Continuity
27. Engine speed not raising, Traction motors not getting power supply from main generator.
28. To crank the engine, stand by auxiliary generator failure.
29. Primary filter
30. After cooler, water
31. Lube oil cooler, water
32. 20 PSI
33. Idle, CCEM
34. Water jumper
35. 1110-1150
36. Fast air pumping
37. Ground relay (GR)
38. Engine shut down without indication.
39. Dynamic brake
40. Parallel

41. Isolating loco brake during A9 application. & Quick release for Loco brakes
42. 1000,400
43. 2600/2400
44. 910 litres
45. Radiator room
46. Radiators, Atmospheric air
47. 5 kg/cm^2
48. 6 kg/cm^2
49. 8
50. Soft grease
51. Exhaust gases
52. Inter cooler
53. Lube oil
54. 25 to 65
55. Lead position.
56. Open position.
57. 3Kgs.
58. Working control stand SA9 cock open and non working SA9 cock close or both open.
59. F1 selector.
60. Formation brakes fail.
61. To release conjunctional.
62. 95.105MM.
63. 1.8 kgs/cm^2 .
64. Close.
65. Brake power will be very poor.
66. To show the rate of leakage in BP.
67. C2 relay valve.
68. Additional C2 relay valve.
69. WSR.
70. DMR.
71. Engine RPM comes to idle, Automatic switching on of flasher light, audio and visual take place.
72. 105 KMPH.
73. 120 KMPH.
74. 120 KMPH.
75. 120 KMPH.
76. 160 KMPH.
77. 105 KMPH.
78. Flasher light.
79. 50MM
80. For one Wheel full and for other wheel half.

: 60 :

81. 76 sec.
82. They should get repair or fail the locomotive.
83. Fail the locomotive.
84. 76 percentage.
85. Switch off, FPB, CCEB, AGFB, in failed loco.
86. Closed.
87. Brake power will be very poor.
88. Working control stand A9 cock may be in closed position and non working control stand A9 cock may be in open position.
89. Both control stands A9 cocks may be in open position.
90. Apply SA9, Apply A9 to emergency position, Apply Hand brake, Keep the skids under neath the loco motive wheels, apply hand brakes of formation based on gradient, advise guard to apply hand brake of brake van.
91. PCS.
92. MCB1& MCB2.
93. 1016.
94. 1095.
95. 100.
96. 40.
97. 60.
98. 29.
99. 32.