

2. Precautions to be observed during marshalling of wagons containing petroleum and other inflammable liquids:

Note: Petroleum products are classified as class 'A', Class 'B' and Class 'C' on the basis of flash point.

Class 'A' liquids: These are the liquids vapours of which have flash point below 23° C;

Class 'B' liquids: These are the liquids vapours of which have flash point above 23°C but below 65°C and

Class 'C' liquids: These are the liquids vapours of which have flash point at 65° C and above.

- 2.1. There is no restriction on the number of wagons containing petroleum and other inflammable liquids which may at any one time be attached to or be transported by any one train.
- 2.2. Wagons containing petroleum and other inflammable liquids which may be grouped together, should be placed as far away as practicable from the train locomotive.
- 2.3. Wagons containing petroleum and other inflammable liquids (class A, listed under Table No. III of Red Tariff) shall be separated by not less than 3 carriages/wagons which do not contain explosives, other dangerous goods or articles of inflammable nature from a) train locomotive, b) passenger carriages c) brake-van and d) any other carriages/ wagons containing explosives, other dangerous goods or articles of inflammable nature.

1. When electric or diesel locomotive is used:

Only one such carriage / wagon* should be attached between the wagons containing petroleum and other inflammable liquids (category 'class A') and the locomotive.

2. If a passenger carriage is to be hauled:

If a passenger carriage is to be hauled in the goods train, then, only one such carriage / wagon* should be attached between the wagons containing petroleum and other inflammable liquids (category 'class A') and the passenger carriage, provided the goods train is hauled by electric or diesel locomotive.

3. In the case of Brake-van:

Only one such carriage / wagon* should be attached between the wagons containing petroleum and other inflammable liquids (category 'class A') and the passenger carriage, provided the goods train is hauled by electric or diesel locomotive.

However, There is no need to attach such carriage/wagon* between tank wagon (if it is an 8 wheeler) containing petroleum and other inflammable liquids (category 'class A') and the brake-van, if an 8 wheeler brake-van is used and the goods train is hauled by diesel or electric locomotive.

- 2.4. Wagons containing petroleum or other inflammable liquids, class B: Wagons containing petroleum or other inflammable liquids (category class B) shall be separated by only one such carriage/wagon* from the
 - a) Train locomotive;
 - b) Passenger carriage;
 - c) Brake-van and
 - d) Any carriage/wagon containing explosives, other dangerous goods or articles of inflammable nature.

However, if the last tank wagon is an 8 wheeler and if the brake-van is also an 8 wheeler, there is no need to attach such a carriage / wagon* between the 8 wheeler tank wagon and 8 wheeler brake-van.

Note: In the above paras, *Such carriage/wagon means a carriage or a wagon which does not contain explosives or other dangerous goods or articles of inflammable nature.

- 2.5. Wagons containing petroleum and other inflammable liquids shall be close coupled to the adjoining carriages/wagons and to each other.
- 2.6. Empty tank wagons said to have contained petroleum and other inflammable liquids should for the purpose of marshalling on trains be treated as if these tank wagons actually contained petroleum or inflammable liquids and the above precautions should also be observed for the provision of Guard wagons for separating such empty tank wagons from the train locomotive or from the passenger carriages or the brake-van.
- 2.7. Wagons containing petroleum and other inflammable liquids of Class 'A' shall not be transported by any train other than the goods trains. Petroleum and other inflammable goods of Class 'B' may however be transported in wagons by all trains except passenger trains.
- 2.7.1. Petroleum and other inflammable liquids of Class 'A' may however be transported in wagons by a mixed or parcel train, on any line or section on which goods trains are not running, subject to the condition that immediately on entering on any section on which goods trains are running, the wagons containing petroleum and other inflammable liquids of Class 'A', shall be detached from the mixed or parcel train.
- 2.8. Separation from the brake-van in certain special cases—

In the case of a generator fitted brake-van where the electrical equipment including the generator is totally enclosed and suitable glands to close the small openings left for cable entry are fitted, tank wagons containing petroleum and other hydrocarbon oils need be separated there from by only one wagon provided that the intervening wagon and the brake-van do not contain explosives or other dangerous goods or articles of inflammable nature.

1. The equipment and fittings in the brake-van should, however, be thoroughly examined at the commencement of each journey to ensure that they are in proper order.
2. A power plant bogie carrying not more than 96.21 liters of petrol and attached in the rear of the brake-van of vacuum-braked trains need have no carriage not containing explosives, other dangerous goods or articles of inflammable nature intervening between it and the brake-van.
- 2.9. Position of tank wagons on mixed train —

Tank wagons containing petroleum and other inflammable liquids of Class 'A' or fuel or kerosene oil, or empty tank wagons which have contained these liquids, when transported by mixed trains, must be attached in the rear of the passenger carrying vehicles.

- 2.10. Tank wagons containing petroleum and other inflammable liquids and liquid oxygen shall not be carried together. Petroleum and other inflammable liquids in tank wagons shall not be conveyed by any train by which liquid air or liquid oxygen is carried.
3. Guard or dummy wagons: Whenever the requisite number of wagons, not containing explosives or other dangerous goods or articles of inflammable nature are not available, empty wagons shall be used as Guard or dummy wagon.