diesel engine fuel supply control device further comprising:

second control means which controllably varies the mixing ratio set by the mixing ratio setting means in a stepwise fashion so that the ratio of mixing the waste oil is increased by outputting a control command to the mixing ratio setting means when the operating state determination means determines that the diesel engine is in the first operating state and then causes the first control means to control the waste oil quantity regulating means and the petroleum-based fuel oil quantity regulating means in accordance with the stepwise mixing ratio, controls the waste oil quantity regulating means and the petroleum-based fuel oil quantity regulating means so that the current mixing ratio set by the mixing ratio setting means is maintained by outputting a control command to the first control means when the operating state determination means determines that the diesel engine is in the second operating state, and supplies the petroleum-based fuel oil alone from the second fuel tank for a specified period of time to run the diesel engine with the petroleum-based fuel oil by outputting a switching control command to the fuel switching means to thereby purge a fuel supply system including a fuel pump and an injection nozzle constituting the fuel supply system~~ayatem~~ with the petroleum-based fuel

oil when the operating state determination means determines that the diesel engine is in the third operating state.

3. The diesel engine fuel supply control device according to claim 2, wherein the operating state determination means determines that a state in which the diesel engine is run is a fourth operating state when the operating state determination means determines that the amount of engine speed fluctuation has a value exceeding the second set value, and the second control means has a control function to supply the petroleum-based fuel oil alone from the second fuel tank for a specified period of time to run the diesel engine with the petroleum-based fuel oil by outputting the switching control command to the fuel switching means to thereby purge the fuel supply system with the petroleum-based fuel oil on the basis of the fluctuation amount determination information.

4. The diesel engine fuel supply control device according to claim ~~2 or~~ 3, wherein the second control means has a control function to vary the mixing ratio set by the mixing ratio setting means in a stepwise fashion so that the ratio of mixing the waste oil is decreased by outputting a mixing ratio altering command to the mixing ratio setting means each time the fuel supply system is

purged with the petroleum-based fuel oil until the speed of the diesel engine reaches the target engine speed in a stable fashion.

~~5. The diesel engine fuel supply control device according to claim 1, wherein the fuel supply means includes fuel switching means for supplying one of the waste oil and the petroleum-based fuel oil by switching to one of the fuel mixing means and the second fuel tank, the diesel engine fuel supply control device further comprising:~~

~~a timer for managing operating time of the diesel engine and purging time required for purging a fuel supply system including a fuel pump and an injection nozzle constituting the fuel supply means with the petroleum-based fuel oil for a specified period of time at intervals of unit time; and~~

~~third control means which supplies the petroleum-based fuel oil from the second fuel tank for a specified period of time to run the diesel engine with the petroleum-based fuel oil by outputting a switching control command from the timer to the fuel switching means each time a point in time set in the timer at intervals of the unit time is reached to thereby purge the fuel supply system including the fuel pump and the injection nozzle constituting the fuel supply system with the petroleum-based fuel oil.~~

~~6. The diesel engine fuel supply control device according to any one of claims 1 to 5, wherein the first fuel tank is further provided with a filter for removing impurities contained in the waste oil supplied from the first fuel tank to the fuel mixing means.~~

5. The diesel engine fuel supply control device according to claim 3, wherein the first fuel tank is further provided with a filter for removing impurities contained in the waste oil supplied from the first fuel tank to the fuel mixing means.

6. The diesel engine fuel supply control device according to claim 2, wherein the first fuel tank is further provided with a filter for removing impurities contained in the waste oil supplied from the first fuel tank to the fuel mixing means.

7. The diesel engine fuel supply control device according to claim 2, wherein the second control means has a control function to vary the mixing ratio set by the mixing ratio setting means in a stepwise fashion so that the ratio of mixing the waste oil is decreased by outputting a mixing ratio altering command to the mixing ratio setting means each time the fuel supply system is purged with the petroleum-based fuel oil until the speed of the diesel engine reaches the target engine speed in a stable fashion.

8. The diesel engine fuel supply control device according to claim 7, wherein the first fuel tank is further provided with a filter for removing impurities contained in the waste oil supplied from the first fuel tank to the

fuel mixing means.

9. The diesel engine fuel supply control device according to claim **1**, wherein the fuel supply means includes fuel switching means for supplying one of the waste oil and the petroleum-based fuel oil by switching to one of the fuel mixing means and the second fuel tank, the diesel engine fuel supply control device further comprising:

a timer for managing operating time of the diesel engine and purging time required for purging a fuel supply system including a fuel pump and an injection nozzle constituting the fuel supply means with the petroleum- based fuel oil for a specified period of time at intervals of unit time; and

third control means which supplies the petroleum-based fuel oil from the second fuel tank for a specified period of time to run the diesel engine with the petroleum-based fuel oil by outputting a switching control command from the timer to the fuel switching means each time a point in time set in the timer at intervals of the unit time is reached to thereby purge the fuel supply system including the fuel pump and the injection nozzle constituting the fuel supply system with the petroleum-based fuel oil.

10. The diesel engine fuel supply control device according to claim 9, wherein the first fuel tank is further provided with a filter for removing impurities contained in the waste oil supplied from the first fuel tank to the fuel mixing means.

11. The diesel engine fuel supply control device according

to claim 1, wherein the first fuel tank is further provided with a filter for removing impurities contained in the waste oil supplied from the first fuel tank to the fuel mixing means.