CLAIMS:

1. A system for managing transport refrigeration units, the system comprising:

a storage device to store transport parameters associated with a transport refrigeration unit and a maintenance history of the transport refrigeration unit, the storage device storing historical transport parameters for other transport refrigeration units;

an equipment management system coupled to the storage device, the equipment management system including:

a diagnostic module to determine a condition of the transport refrigeration unit in response to the transport parameters;

a predictive maintenance module to determine a need for upcoming maintenance of the transport refrigeration unit in response to the transport parameters; and

a remaining life module to determine a remaining life of at least one component of the transport refrigeration unit in response to the transport parameters,

wherein the predictive maintenance module adjust a maintenance schedule of the transportation refrigeration unit in response to at least the maintenance history and the need for upcoming maintenance.

2. The system of claim 1, wherein:

the diagnostic module activates an alarm when the condition of the transport refrigeration unit is outside of a selected range of conditions.

3. The system of claim 1, wherein:

the predictive maintenance module activates an alarm when the need for upcoming maintenance of the transport refrigeration system is determined.

4. The system of claim 1, wherein:

the remaining life module activates an alarm when the remaining life of at least one component of the transport refrigeration unit equals a selected value.

5. The system of claim 1, wherein:

the transport parameters include parameters of the transport refrigeration unit including at least one of operating temperature, operating pressure,

operating vibrations, operation cycles, and operation duration of the transport refrigeration unit.

6. The system of claim 1, wherein:

the transport parameters include at least one location of the transport refrigeration unit.

7. The system of claim 1, wherein:

the transport parameters include weather data experienced by the transport refrigeration unit.

8. The system of claim 1, wherein:

the transport parameters include quality inspections of perishable goods carried by the transport refrigeration unit.

9. The system of claim 1, wherein:

the transport parameters include manually entered data.

10. A method of managing transport refrigeration units, the method comprising:

storing, using a storage device, transport parameters associated with a transport refrigeration unit and a maintenance history of the transport refrigeration unit, the storage device storing historical transport parameters for other transport refrigeration units;

monitoring, using an equipment management system, the transport refrigeration unit, the equipment management system coupled to the storage device, the equipment management system including:

a diagnostic module to determine a condition of the transport refrigeration unit in response to the transport parameters;

a predictive maintenance module to determine a need for upcoming maintenance of the transport refrigeration unit in response to the transport parameters; and

a remaining life module to determine a remaining life of at least one component of the transport refrigeration unit in response to the transport parameters,

wherein the predictive maintenance module adjust a maintenance schedule of the transportation refrigeration unit in response to at least the maintenance history and the need for upcoming maintenance.

11. The method of claim 10, further comprising:

activating an alarm, using the diagnostic module, when the condition of the transport refrigeration unit is outside of a selected range of conditions.

12. The method of claim 10, further comprising:

activating an alarm, using the predictive maintenance module, when the need for upcoming maintenance of the transport refrigeration unit is determined.

13. The method of claim 10, further comprising:

activating an alarm, using the remaining life module, when the remaining life of at least one component of the transport refrigeration unit equals a selected value.

14. The method of claim 10, wherein:

the transport parameters include parameters of the transport refrigeration unit including at least one of operating temperature, operating pressure, operating vibrations, operation cycles, and operation duration of the transport refrigeration unit.

15. The method of claim 10, wherein:

the transport parameters include at least one location of the transport refrigeration unit.

16. The method of claim 10, wherein:

the transport parameters include weather data experienced by the transport refrigeration unit.

17. The method of claim 10, wherein:

the transport parameters include quality inspections of perishable goods carried by the transport refrigeration unit.

18. The method of claim 10, wherein:

the transport parameters include manually entered data.