8.2 SCHEDULED MAINTENANCE

For the most reliable operation and for maximum life, your unit requires regular maintenance. This includes oil and filter changes, fuel and air cleaner replacement, coolant replacement and pre-trip inspections. Maintenance is to be performed in accordance with the procedures provided in **Table 8–1**.

8.3 PRE-TRIP INSPECTION

Pre-trip inspection should be performed before every trip and at regular maintenance intervals. Pre-trip procedures are provided in the Trailer Refrigeration Pre-trip Inspection document 62-90490.

Table 8-1 Maintenance Schedule

System	Operation	Reference Section
a. Pre-Trip Inspection	าร	
Pre-Trip Inspection - before starting		Section 8.3
Pre-Trip Inspection - after starting		Section 8.3
Run Microprocessor Pretrip - Before loading		Section 3.7
4. Check Engine Hours		Section 3.17
b. Every Service Inte	rval or Yearly	
Engine	Check engine oil and filter change interval (refer to Section d. of this table)	Section d.
	Check low oil pressure switch	Engine Manual
	Clean crankcase breather	Section 8.6.16
	4. Check fuel injectors every 1,500 hours*	Engine Manual
	5. Check injection pump every 3,000 hours*	Engine Manual
	6. Check and adjust engine valves every 4,000 hours	Engine Manual
Fuel System	Clean mechanical and electric (if equipped) fuel pump screens	Section 8.6.3 & Section 8.6.4
	Change fuel filter	Section 8.6.5
	Check fuel heater (if equipped)	Section 8.6.8
Cooling System	 Check coolant change interval (refer to Section c. of this table). If replacement is not required, check antifreeze concentration using a refractometer, (Carrier Transicold P/N 07-00435-00). 	Section 8.6.14
	Clean condenser/radiator surfaces	Section 8.6.14
	Check water pump	Check
	Check water temperature sensor	Check
Exhaust System	Check mounting hardware	Check
	Check muffler and exhaust pipes	Check
Air Intake System	Change air cleaner element	Section 8.6.10
	Check and reset air cleaner indicator	Section 8.6.10
Starting Circuit	Clean battery connections and cable ends	Check/Replace
	Check battery hold down clamps	Check/Replace
	Check battery condition	Check
	Check starter operation	Check

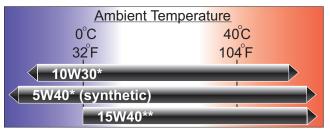
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Table 8-1 Maintenance Schedule

System	Operation	Reference Section		
Charging Circuit	Check battery charger output voltage	Section 8.10.12		
	Check battery charger amperage	Section 8.10.12		
*Based upon EPA 40 CFR Part 89				
Unit	Check unit mounting bolts	Check		
	Check engine and compressor mounting bolts	Engine Manual		
	Check door latches & hinges	Section 8.5.4		
	Check condition of water pump belt	Check		
Refrigeration System	Check defrost air switch and calibrate as necessary	Section 8.9.12		
	2. Check & clean the evaporator coil and all defrost drain hoses	Section 8.9.1		
	Install manifold gauge set and check refrigerant pressure	Section 8.7		
	Run APX Control System Pretrip	Section 3.7		
	Check calibration of suction pressure transducer	Section 8.7.1		
	Check manual defrost operation	Section 3.12		
Electrical System	Check unit switches and electrical connections	Check		
	Check all ground connections for corrosion & tightness	Check		
	Check stand-by plug for signs of wear or damage	Check		
	Check condenser fan amperage	Section 2.10		
	5. Check evaporator fan amperage	Section 2.10		
	Check compressor amperage	Section 2.10		
	7. Check heater amperage	Section 2.10		
c. 5 year or 12,000 Hour Maintenance				
Coolant System	Drain and flush cooling system	Section 8.6.14		
	Refill with Extended Life Coolant	Section 8.6.14		
d. Oil Change Interva	ils			
Oil Type	Oil Change / ESI Filter Change			
Petroleum	3000 hours or 2 years (Maximum oil drain interval is 2 years)			
Mobil Delvac 1 ESP*	4000 hours or 2 years (Maximum oil drain interval is 2 years)			
* Mobil Delvac 1 ESP	is the only approved synthetic oil			
These maintenance schoolules are based on the use of approved ails and regular Dra trip inspections of the unit				

These maintenance schedules are based on the use of approved oils and regular Pre-trip inspections of the unit. Failure to follow the recommended maintenance schedule may affect the life and reliability of the refrigeration unit.

8.4 OIL VISCOSITY



^{*10}W30 & 5W40 (synthetic) are recommended for ALL climates **15W40 is NOT recommended for climates < 32°F (0°C)

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