THERMO KING

# Klinge

PTI form for all NMG-118 models

| Date: | Serial number: | Location: |
|---|---|---|
| Hour meter reading: | | Container number: |

**Note**: Check if content of optional spare parts box is complete (i.e. ensure there are no missing parts).
**Note**: Manual available on www.thermoking.com/klinge; unit revision number found on data plate.
**Note**: Record all information pertaining to testing tools used below:

Multimeter ID# _____
Calibration Date _____
Calibration Due Date _____

Trained Operator and Date:_____

| **PRE-OPERATION TEST - (Can be performed in hazardous location)** | Initial = **OK** |
|---|---|
| 1. With **NO POWER** to the unit, check unit visually for physical damage: | |
| a. Generator frame – structural or defective damage | |
| b. Generator sheet metal/tank– structural or defective damage | |
| c. Generator engine – leaking hoses, lubricant/fuel leak, broken components/missing parts | |
| d. Hardware – all hardware is tight, in place and in good condition | |
| 2. Check fuel level. Use ASTM D975-96 # 2-D or # 1-D in cold weather; DIN EN 590; BS 2869; NATO Code F-54 / F-34 / F-44 and SF 63 or equivalent. Record Level: | |
| 3. Inspect fuel sediment bowl and strainer for water contaminates. Drain water from bowl, clean bowl and strainer if necessary. | |
| 4. Check engine oil level. Add oil to dipstick mark if needed. Use SAE 10W-40 API service CF/CH-4 oil; ACEA E2-96 / E3-96 E5-02 or equivalent. | |
| 5. Check fuel and oil filters previous service: No more than 500 hours or 1 year. Replace filters and change oil if beyond these limits. Write date and hours on new filters with permanent marker. Record information here: | |
| 6. Ensure air filter is clean and air intake hoses in good condition. Ensure the green on the restriction gauge is visible, the rubber vacuator valve on the dust cap is in good condition and faces down. Ensure that all rubber hoses are in good condition with tight clamps in place. | |
| 7. Check level of radiator fluid at the overflow bottle. If necessary, use a 50/50 mixture of antifreeze/water to ensure fluid level is between “LOW” and “HIGH” marks on bottle. | |
| 8. Check fan belt for wear, cracks and proper tension. Tighten or replace if necessary. | |

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| | |
|---|---|
| 9. Insure that the Fuel Switch Cable is connected to corresponding Cable from electrical Box | |
| 10. Make sure that the fan is not damaged and that the cooling air circulation is not obstructed. | |
| 11. Check for frayed cables, cracked wire insulation and for clean and secure electrical connections. Clean and or replace as needed. | |
| 12. Connect the generator set to the refrigeration unit with the power cable. Ensure switches on the generator set and on the refrigeration unit are in the "OFF" position. | |
| **OPERATIONAL TEST** | Initial = **OK** |
| 1. Use a voltmeter to check the battery voltage with the engine shut down. Voltage Range: 10 – 14V.<br>Record Voltage: | |
| 2. Start generator set by turning the Gen Set control box switch to "MANUAL".<br>Note any difficulty in starting. | |
| 3. Wait until engine speed stabilizes and oil pressure reaches a minimum of 30-35 psi. | |
| 4. Turn the generator circuit breaker on, then turn "ON" the refrigeration unit. | |
| 5. Check the oil hoses, radiator hoses and fuel lines for leaks while unit is running. Tighten any or replace any components where leaks appear. | |
| 6. Observe the exhaust system. If exhaust is dirty, stop the engine and replace or clean the air filter cartridge. This can be cleaned by blowing compressed air from the inside of the cartridge. | |
| 7. Check to ensure that the battery is being charged: Use a voltmeter to check the battery voltage. Voltage Range: 13 – 14 volts. Record voltage: | |
| 8. Check output voltage. Use voltmeter and measure voltage on one phase of power cable to ground.<br>Record voltage:<br>Refrigeration unit range: 460-480V | |
| 9. Check output amperage. Use amp clamp around same phase of power cable<br>Record amperage:<br>Refrigeration unit range: 20-30A | |
| 10. Observe and record the "Hour Meter Reading" on this form. | |
| 11. Turn the power switch of the refrigeration unit and generator set to the off position. | |

**NOTE:** Refer to the Servicing Schedule found in the Operation, Service and Parts Manual for additional time-based inspections, component checks and replacement intervals.

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***By signing this form, we are acknowledging that any discrepancies in the recorded data have been noted and accepted.***

| | | | |
|---|---|---|---|
| | | | |
| **Test Operator Signature** | **Date** | **Quality Control Signature** | **Date** |

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