Klinge Corporation

PTI form for all Trans-Shipment NMR 262-50 and NMG-115 systems

Date:	Container #:	Location:
NMG Serial #:		Hour meter reading:
NMR Serial #:		Date of last PTI (if known):

Note: Manuals can be requested by contacting technical@klingecorp.com

Below Reefer Equipment sections are under assumption that Sure Power is being Supplied.

IF Sure Power is not Being Supplied the Generator Set will eed to be connected to Reefer Equipment and Generator Set Turned On.

Check if **OK**

	Onioon ii On
Inspect generator set for damage, missing parts and loose mounting bolts.	
Check fuel level. If necessary, add appropriate diesel fuel.	
Inspect fuel sediment bowl and strainer for water contaminates. Drain water from bowl, clean bowl and strainer if necessary.	
Check engine oil level. Add appropriate oil to dipstick mark, if needed.	
Check air filter and air intake hoses are in good condition. Ensure all air system rubber hoses are clamped tightly. Check that the rubber vacuator valve is in good condition and faces down.	
Check fan belt for wear, cracks and proper tension. Tighten or replace if necessary.	
Make sure that the fan is not damaged and that the cooling air circulation is not obstructed.	
Make sure the unit spares part kit security seal is not broken and that the box is secured.	
Observe and record the hour meter reading at the top of the form.	

***** Check unit visually for physical damage:

Check if **OK**

Oncok drik visually for priysical damage.	Oncok ii Oik
Ensure major hold-down bolts are tightened and main power cable fittings are in good condition.	
Open control box cover and check that all electric components are secured. ***CAUTION**** THE MAIN POWER IS ON!!	
Check the gasket on control box covers. Be sure the latches hold the covers tightly closed by confirming an indentation in the gasket from the control box lid.	
Check cleanliness of the condenser coils and steam or air clean if necessary.	
Check all refrigerant joints and connections thoroughly for traces of oil or stains indicating small refrigerant leak	
Check and record voltage of generator set battery. The reading should be between 10 – 13 volts.	
Start generator set.	
Wait until engine speed stabilizes and oil pressure reaches a minimum of 30 psi.	
Check intake air hose restriction indicator to ensure red indicator is not visible, if so, service air cleaner.	
Turn the generator circuit breaker ON. Check Voltage out put at the generator plug. If Generator supplying the power then check output voltage at Generator main Circuit Breaker.	
Turn both systems and Generator Set OFF. If Generator supplying power keep this ON.	

System 1	System 1
On System 1, initiate the function test by holding "Manual Defrost" switch ON while switching its ON/OFF switch to the ON position. All System 1 thermostat LEDs will flash to indicate they work. Turn on System 2.	
Watch the LEDs and follow the side label on the System 1 thermostat as it steps through the test. If it stops at any step there is a fault associated with the item indicated. After the function test ends, System 1 will go into normal operation and indicate it is the "primary system" via the controller LED.	
Wait 5 minutes and then check and record voltage of battery. The reading should be between 13 – 14 volts when on generator power and approximately 12 – 13 volts when on shore/mains power.	
Check the rotation of Condenser fan. See arrow marking correct direction.	
Record incoming main power voltage.	

Record amperage of the compressor motor, the condenser motor and the evaporator motor. Should **not exceed** the following:

Compressor	14 Amps	L1	L2	L3	
Condenser Fan	1.5 Amps	L1	L2	L3	
Evaporator Fan	0.7 Amps	L1	L2	L3	
After 10 -15 minutes of running, put unit on manual defrost by holding the defrost switch on for 5 seconds. The					
compressor will continue to run, the fans will stop.					
After defrost terminates, the unit will switch over to System 2 running as primary. This is normal operation.					
Turn OFF both systems and turn them back ON again. Run system 1 for 15 minutes to allow temperature to					

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					ould be on the bottom of	
the sight glass, the balls in the lower sight glass should be floating. Switch main circuit breaker of System 1 OFF and verify activation of alarm horn and light.						
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Verify that alarm condition causes System 2 to take over as the Primary System (as indicated on System 2 controller). NOTE: Changeover from System 1 to System 2 will take a few minutes.						
Turn OFF both sy	/stems.					
				0		
System 2 On System 2, initiate the function test by holding "Manual Defrost" switch ON while switching its ON/OFF				System 2		
			2 thermostat LEDs will fl			
					ough the test. If it stops at	
			th the item indicated. Aft "primary system" via the		ds, System 2 will go into E: System 2 will also show	
			communicate with System			
initiated, disregar	d during this p	art of t	he PTI.			
			cord voltage of battery.			
			imately 12 – 13 volts whe		ver.	
Check the rotatio	n or Condense	r ian.	See arrow marking corre	ct direction.		
Record amnerage	of the compre	essor i	motor the condenser mo	tor and the evanorator	r motor. Should not exceed	the following:
Compressor	11 Amps	50001	L1	L2	L3	
Condenser Fan	1.5 Amps		L1	L2	L3	
Evaporator Fan	0.7 Amps		L1	L2	L3	
					itch on for 5 seconds. The	
		the fa	ins will stop. Immediately	turn ON System 1.	System 2 will continue to	
act as the "prima		t will c	witch over to System 1 ru	unning as primary. Th	is is normal aparation	
			System 2 ONLY. Run sy			
					ould be on the bottom of	
			ight glass should be float			
Turn on System	 System 2 w 	ill cont	inue to act as the "primar	y system".		
Switch main circu	uit breaker of S	ystem	2 OFF and verify activati	on of alarm horn and	light.	
Verify that alarm controller).	condition caus	es Sys	stem 1 to take over as the	Primary System (as	indicated on System 1	
Keep system 1 as	primary and s	ystem	2 a secondary and allow	to run in normal ope	rations.	
			•			
Data logger						
		ta logg	ger until "Journey Ticket N	lumerical" is displaye	d. Attach data logger	
printout to this P7		orint ti	cket, check for printer par	ner Insert new naner	roll in printer	
					close to end. Replace with	
new pape			· ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `			
Verify that the ala	arm function of	the da	ta logger is activated if c	ustomer has required	this.	
Notes:						

Signature:	-	_
	Signature:	