

# QUARTERLY MAINTENANCE INSPECTION CHECKLIST

## Machinery (M)

**Date of inspection-** spell out the month! (30 MARCH 2020) \_\_\_\_\_

**Name of inspector (print) :** \_\_\_\_\_

**DIRECTIONS:** Print this checklist and take it with you as you do your work. If any item **FAILS** inspection, **enter notes** to explain what you found. Submit to the Captain for signature when complete.

**HELM CONNECT ENTRY-** If the system is not in good working order, choose FAIL in the Helm record and complete a new, separate task for what needs to be done to return it to good working order. Finish this part of the QMI inspection and keep the new task open until repairs are completed.

**NAMING THE NEW TASK-** The task title in the description field should **start with the item number** on the list **followed by a short description**. For example: **“M1- Grinders found without guards”**.

**General Safety (circle one)- PASS / FAIL**

**If FAIL, list new helm task #s here:** \_\_\_\_\_

Item #	Description	OK	N/A	Needs repair / attention
M1	Do all grinders have spark guards, eye protection, and warning signs in place?			
M2	Are hearing protection and warning signs available at entrances to machinery spaces			
M3	Have handrails in the engine room been checked (any broken or missing ones to be repaired)?			
M4	For all rotating machinery and If there are any belt-driven type pumps, do guards provide protection and are they in place?			
NOTES:				

**Pipes/ Piping (circle one)- PASS / FAIL**

**If FAIL, list new helm task #s here:** \_\_\_\_\_

Item #	Description	OK	N/A	Needs repair / attention
M6	Have engine room fire/ballast lines been checked for holes, soft patches, wastage, etc.? Signs of leakage?			
M7	Has the sewage piping in the engine room been examined? Is any of the piping leaking or fitted with patches?			
M8	Has all of the piping in the engine room been examined? Was any of the piping fitted with patches? <b>If so, has it been brought to the attention of the class surveyor?</b>			
M9	Are all of the gauges attached to the pumps and piping systems working properly?			

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M10	Have all of the pumps in the engine room been examined? If there is leakage through the seals or glands, has it been stopped? Do any of the pump casings have patches? <b>If so, has it been brought to the attention of the class surveyor?</b>			
M11	Are all of the pumps in good working order?			
M12	Have all of the coolers in the engine room been examined? If there is leakage, has it been stopped?			
M13	Do any of the cooler end casings have patches? <b>If so, has it been brought to the attention of the class surveyor?</b>			
M14	Are all of the coolers in good working order?			
M15	Have the overboard discharge valves and sea suction valves been examined for leakage and/or corrosion?			
NOTES:				

**Engine Room (circle one) - PASS / FAIL**

**If FAIL, list new helm task #s here: \_\_\_\_\_**

Item #	Description	OK	N/A	Needs repair / attention
M16	Are the engine room floor plates free from oil and not slippery?			
M17	Is the engine room clean and free from oil in bilges and under generators?			
M18	Has the emergency generator radiator and oil level been checked?			
M19	Have auxiliary engines been checked for water leakage?			
M20	Have audible and visual emergency alarms been tested for effectiveness throughout the engine room?			
M21	Are emergency escape routes clearly marked and accessible, and are ISPS security locks visibly in place for rapid installation?			
M22	Has all lagging in the engine room been checked? If found missing or soaked with oil, has it been replaced?			
M23	Have the engine room fan dampers been visually examined, tested and proven to be in good repair and working order?			
M24	Have all of the remote (and quick) closing fuel valves been examined, tested and proven to be in good working order?			
M25	Have all of the remote blower shutdowns been examined, tested and proven to be in good working order?			
M26	Has the dead ship start up recently been tested? Did everything work satisfactorily, including emergency air compressor, or hand pump compressor and emergency generator, whichever is applicable?			
NOTES:				

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**Refrigeration (circle one) - PASS / FAIL**

**If FAIL, list new helm task #s here:** \_\_\_\_\_

Item #	Description	OK	N/A	Needs repair / attention
M27	Is the refrigeration machinery for the reefer boxes operating satisfactory?			
M28	If fitted, are refrigeration high temp alarms working?			
M29	If fitted, are refrigeration "locked in" alarms and/or door escapes working?			
NOTES:				

**More Engine Room (circle one) - PASS / FAIL**

**If FAIL, list new helm task #s here:** \_\_\_\_\_

Item #	Description	OK	N/A	Needs repair / attention
M30	Is the main engine oil mist detector working correctly?			
M31	Has the emergency air compressor been examined, tested and found to operate satisfactorily? If diesel driven, is the exhaust line lagging in good condition?			
M32	Have any illegal connections been made to the bilge pump? If so, have they been disconnected?			
M33	Are all of the self-closing devices on the sounding pipes in the engine room in good order and working properly?			
M34	Have there been any cement boxes fitted in the engine room? If so, have they been brought to the attention of the class surveyor?			
M35	Is the rudder indicator on the bridge reading the same as the one in the steering gear compartment?			
M36	Have the engine room self-closing doors been checked for satisfactory operation (hold backs removed)?			
M37	Is the turbo charger gas inlet insulated?			
M38	Has the ballast stripping educator pipe been checked for leaks?			
NOTES:				

**----CONTINUED ON NEXT PAGE----**

# QUARTERLY MAINTENANCE INSPECTION CHECKLIST

Signage (circle one) - PASS / FAIL

If FAIL, list new helm task #s here: \_\_\_\_\_

Item #	Description	OK	N/A	Needs repair / attention
M40	Is signage posted and entered into Engineers Standing Orders to keep sight glass valves closed except when sounding? Were they checked and found to be closed?			
M41	Is signage posted and a locking mechanism present to secure the Overboard Discharge from the Oily Water Separator as per MARPOL 1 requirements?			
M42	Is signage posted and a locking mechanism present to secure the Overboard Discharge of untreated sewage as per MARPOL 4 requirements?			
NOTES:				