**Name of Vessel**

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**Vessel Built in Compliance with SOLAS:** 60 74 74/78 N/A

**Route**

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<td>Great Lakes</td>
<td>Rivers</td>
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**Inspection Type**

- Inspection for Certification (COI)
- Reinspection

**Inspectors**

1. ____________________ 3. ____________________
2. ____________________ 4. ____________________
## Total Time Spent Per Activity:

### Regular Personnel (Active Duty)

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<tr>
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<th>ACTIVITY</th>
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TOTAL ADMIN HOURS | TOTAL TRAVEL HOURS

### Reserve Personnel

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TOTAL ADMIN HOURS | TOTAL TRAVEL HOURS

### Auxiliary Resources

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<th>TOTAL BOAT HOURS</th>
<th>TOTAL AIRCRAFT HOURS</th>
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Use of Offshore Supply Vessel Inspection Book:

This inspection book is intended to be used as a job aid by Coast Guard marine inspectors during hull and machinery inspections of U.S. flagged offshore supply vessels (OSVs) subject to Subchapter L. For OSVs built prior to March 15, 1996, Subchapter I or Subchapter T may apply; therefore, cites from CG-840 HI, CG-840 MI, or CG-840 T may be referenced. The lists contained within this book are not intended to limit the inspection. Each marine inspector should determine the depth of inspection necessary. A checked box should be a running record of what has been inspected. It does not imply that the entire system has been inspected or that all or any items are in full compliance. This job aid does not constitute part of the official inspection record.

This document does not establish or change Federal laws or regulations. References given are only general guides. Refer to IMO publications, CFR’s, NVIC’s or any locally produced cite guides for specific regulatory references. Not all items in this book are applicable to all vessels.

NOTE: Guidance on how to conduct inspections of U.S. flagged offshore supply vessels can be found in the Marine Safety Manual (MSM) Volume II, Chapter 6: Inspection of Vessels for Certification. All MSM cites listed in this book refer to MSM Volume II unless otherwise indicated.

Pre-inspection Items:
- Review MSIS records.
  - MIPIP
  - MICOI
- Obtain copies of forms to be issued.

Post-inspection Items:
- Issue letters/certificates to vessel.
- Complete MSIS entries.
  - MIAR
  - MSDS
  - MIDR
  - VFLD
  - VFID
- Initiate Report of Violation (ROV) if necessary.
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## Section 1: Administrative Items

### IMO Applicability Dates:

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<tr>
<th>Reference</th>
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<td>SOLAS 1960</td>
<td>26 MAY 65</td>
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**Involved Parties & General Information:**

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## Vessel Information:

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If not the same, which Recognized Organization?

**NOTE:** The period of validity for ISM documents should correspond to the following list. If they do NOT, ISM documents should be further investigated.

- 5 years = Full term (SMS and DOC)
- 12 months = Interim (DOC)
- 6 months = Interim (SMC)
- 5 months = Short term (SMC)

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</table>
Certificates:

- COI posted
  - All pages visible
  - Number of offshore workers
- Stability letter posted
- Waste management plan (oceangoing vessels ≥ 40 feet)
- Annual drug and alcohol program audit
- Officers’ licenses current
- GMDSS endorsement
  - FCC Station License
  - Safety Radio Certificate
- GMDSS maintenance personnel
  - 1st Class Radiotelegraph Operator’s Certificate
  - 2nd Class Radiotelegraph Operator’s Certificate
  - 3rd Class Radiotelegraph Operator’s Certificate
- Required international safety convention certificates posted and valid
- Liferaft servicing certificates
  - Annual service

Logs and Manuals:

- Bridge logbook
  - Casualties (navigation equipment and steering gear failures reported)
  - Steering gear test
  - Communications
  - Draft / load lines
  - Stability
  - Sanitary accommodations
  - Watertight fittings
  - Emergency lights / power
  - Fire and lifeboat drills

Notes: 

_________________________________________________________________________________
Lifesaving equipment maintenance record 46 CFR 131.545
SOLAS 74/78 III/19

SOLAS training manual SOLAS 74/78 III/18.2

Liftboat operating manual 46 CFR 134.170
- Coast Guard approved
- Understandable to crew

Information available to master
46 CFR 78.17-20
46 CFR 97.15-5
SOLAS 74/78 II-1/22.1
- Loading manual
- Trim and stability book

Pollution Prevention Records:

Oil record book (Part 1) MARPOL Ax. I/20
- Each operation signed by person-in-charge
- Each complete page signed by master
- Book maintained for 3 years

Shipboard oil pollution emergency plan MARPOL Ax. I/26.1
- Approved by Coast Guard / class society
- Contact numbers correct
- Immediate Actions List

Vessel response plan 33 CFR 155.1030
(vessels carrying oil as secondary cargo)
- Approved by Coast Guard
- Annual review by owner / operator

Oil transfer procedures 33 CFR 155.720
- Posted
- List of products carried by vessel
- Description of transfer system including a line diagram of piping
- Number of persons required on duty
- Duties by title of each person
- Means of communication
- Procedures to top off tanks
- Procedures to report oil discharges

Notes: __________________________________________________________________________
_________________________________________________________________________________
_________________________________________________________________________________
Section 3: Inspection Items

Navigation Equipment:

- Navigation publications (as applicable) 46 CFR 130.330
  - Current and corrected charts
  - U.S. Coast Pilot
  - Coast Guard Light List
  - Notice to mariners
  - Tide tables
  - Tidal current tables

- Radar 46 CFR 130.310
  - SOLAS 74/78 V/12

- Compasses 46 CFR 130.340
  - Lighted magnetic compass
  - Current deviation table
  - SOLAS 74/78 V/12

- Test electronic depth sounding device SOLAS 74/78 V/12

- Speed and distance indicator SOLAS 74/78 V/12

- Propulsion shaft tachometer SOLAS 74/78 V/12

- Radio equipment 33 CFR 26.03
  - SOLAS 74/78 V/7
  - Radios, RDF, Loran
  - Electronic position fixing device tested 46 CFR 133.60
  - SOLAS 74/78 V/12
  - GMDSS meets requirements for vessel operating area
  - NVIC 9-93

- Internal communications and control system 46 CFR 113.30
  - EOT failure alarms 46 CFR 113.35
  - Telephones
  - Voice tubes
  - Emergency loudspeaker system
  - Public address system 46 CFR 113.50
  - Pilothouse controls

Notes: ____________________________________________________
__________________________________________________________
__________________________________________________________
__________________________________________________________
__________________________________________________________
__________________________________________________________

9
Navigation lights and signals

- Control panels
- Running lights
- Anchor lights
- Special day and night signals
- Distress signals and stowage
- Whistle, light, bells, gongs
- Day and night signal devices
- Certificate of Alternate Compliance

Steering gear

- Main gear tested (all stations)
- Auxiliary gear tested (all stations)
- Instructions and markings
- Rudder angle indicator
- Illumination
- Alarms
- Block diagram

EPIRB (406 MHz)

- Float-free arrangement
- Battery date current
- Hydrostatic release
- Marked with vessel name

9 GHz radar transponder (SART)

- Vessels > 300 GT and < 500 require 1
- Vessels > 500 GT require 2
- Stowed so to be rapidly placed in survival craft, or stowed in survival craft

General Health and Safety:

Emergency lighting

- Markings
Accommodations
- Size
  - Berthing
  - Seating
- Ventilation
- Lighting and wiring
- Sanitation
- Fire retardant

Machinery
- Equipment
- Sanitation
- Ventilation

Means of escape from accommodation, machinery, and other spaces
- Two required (some exceptions)
- Dead end corridors
- Absence of locks

Gas freeing for repairs
- Current Gas Chemist Certificate for areas as required
- Date
- Chemist No.

Liquefied petroleum gases for cooking and heating
- Approved type
- Cylinder
  - Test dates
  - Stowage
- Safety relief device
- Regulators
- Piping and fittings
- Location

Notes: 

---

11
Paint stowage
- Fireproof / metal lined
- Lighting / electrical
- Fire protection

46 CFR 127.220
46 CFR 129.520
46 CFR 132.310

Storerooms
- Stowage
- Fire hazards
- Lighting and wiring

Structural Integrity:

Hull structure (list inaccessible compartments or areas)
- Decks
- Shell
- Bulkheads
- Tank tops
- Strength members
- Approved plans available

46 CFR 126.430
ICLL 66 Reg. 1

Hull openings and closures
- Air ports and dead covers
- Closing devices, gaskets
- Light / water test
- Closed prior to departure

46 CFR 42.15
MSM Ch. B1.E.5
ICLL 66 Regs. 12 - 23

Deck openings and closures
- Closing devices, gaskets
- Light / water test
- Closed prior to departure

MSM Ch. B1.E.5
ICLL 66 Regs. 12 - 20

Guards, ladders, rails, and gangways
(including accommodation ladders or pilot ladders)

46 CFR 127.310
46 CFR 127.320
46 CFR 127.330
ICLL 66 Reg. 25

Notes: ____________________________________________________
________________________________________________________
________________________________________________________
________________________________________________________
________________________________________________________
- Watertight doors in subdivision bulkhead tested
  - Local and remote control
  - Alarms
  - Markings

- Exercise valves and controls
  - Bilge valves
  - Overboard discharge valves
  - Emergency shutoff valves
  - Scupper valves
  - Remote controls
  - Reach rods

- Bilge wells, cofferdams, and suctions
  46 CFR 56.50-50

- Bulkhead penetrations
  46 CFR 128.230
  MSM Ch. B1.E.6

- Hull marks
  46 CFR 67.120
  - Name
  - Hailing port
  - Official number
  - Net tonnage

- Draft marks
  46 CFR 131.220
  - Legible
  - Properly sized
  - Properly spaced

- Load line marks
  46 CFR 131.230
  ICLL 66 Regs. 4 - 9
  - Conform to certificate
  - Legible

- Cranes in absence of Cargo Gear Certificate
  46 CFR 126.130
  - Records
  - Safe Working Load markings

Notes: __________________________________________________________
                                                                 __________________________
                                                                 __________________________
                                                                 __________________________
                                                                 __________________________
                                                                 __________________________

13
Liftboats:

**NOTE:** Guidance for inspecting liftboats on OSVs is detailed in NVIC 8-91.

- **Legs**
  - Jacking points
  - Pin holes
  - Jacking systems
  - Loss of power alarm
  - Low hydraulic fluid level alarm
- **Freeboard markings**
- **Firemain suction**
  - Distortion
  - Flanged
  - Attachments

Bulk Tanks:

- **Bulk cargo pressure tanks internally examined**
  - Pumps and controls
  - Relief valves
  - Piping-valves
  - Lighting and wiring
  - Cofferdams

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</tbody>
</table>

Notes: ____________________________________________________
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__________________________________________________________
Integral Cargo Tanks:

- **Pumps**
  - Pumps and controls
  - Relief valves
  - Piping-valves
  - 33 CFR 155.780

- **Cargo piping**
  - Expansion joints
  - Supports
  - Hoses
  - Valves
  - 46 CFR 56.30
  - 46 CFR 56.35
  - 33 CFR 155.800
  - 46 CFR 56.20

- **Cargo tank venting**
  - Independent goosenecks
    - Flame screen
    - Closure device
  - 46 CFR 32.55

- **Explosion-proof fixtures**
  - 46 CFR 111.105

- **Independent tanks, fixed, portable, or marine portable**
  - Approved marine portable tank
  - Approved IM portable tank
  - External examination
  - Date of internal examination
  - Date of hydrostatic test
  - Metal information plate
  - Marking and labeling
  - Saddles; foundation and stowage
  - Piping and valves
  - Relief valves
  - Lifting fittings
  - Securing devices
  - Pump and controls
  - Cargo hose
  - Electrical grounding
  - Firefighting requirements
  - 46 CFR 125.110
  - 46 CFR 125.120
  - 46 CFR Part 64
  - 46 CFR 98.30-2
  - 46 CFR 132.370

Notes: __________________________________________________________
____________________________________________________________
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____________________________________________________________
Ground Tackle:

- Anchors
  - Tested
  - Windlass
  - Capstans

- Mooring and towing gear

Lifesaving Equipment:

**NOTE:** General maintenance and tests and inspections of lifesaving equipment is detailed in 46 CFR 131.545 and 46 CFR 133.45, respectively.

- General alarms
  - Controls
  - Batteries and fuses
  - Tested
  - Markings
  - Bell locations audible
  - Lights for high-noise areas

- Lifeboats stripped, cleaned, and inspected
  - Date of annual servicing
  - Hull and fittings
  - Tanks and fittings
  - Cradles
  - Grips
  - Compressed air cylinders
  - Markings

- Rescue boat
  - Approved
  - Required equipment

Notes: _______________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
Lifeboat and rescue boat equipment and stowage (use table below to determine required equipment)

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Item</th>
<th>International (LB)/Oceans (RB)</th>
<th>Short International (LB)/Coastwise (RB)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Lifeboat (LB)</td>
<td>Rescue Boat (RB)</td>
</tr>
<tr>
<td>1</td>
<td>Bailer</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Bilge pump(^1)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Boathook</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Bucket(^2)</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Can opener</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Compass</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Dipper</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Drinking cup</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Fire extinguisher</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>First aid kit</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>Fishing kit</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Flashlight</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>Hatchet</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Heaving line</td>
<td>2</td>
<td>2</td>
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<tr>
<td>15</td>
<td>Jackknife</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Knife(^3)</td>
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<td></td>
</tr>
<tr>
<td>17</td>
<td>Ladder</td>
<td>1</td>
<td>1</td>
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<tr>
<td>18</td>
<td>Mirror, signalling</td>
<td>1</td>
<td></td>
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<tr>
<td>19</td>
<td>Oars, units(^4)</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>20</td>
<td>Painter</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>21</td>
<td>Provisions (units/persons)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Pump(^5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Radar reflector</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>24</td>
<td>Rainwater collection device</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Repair kit(^5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>Sea anchor</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>27</td>
<td>Searchlight</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>28</td>
<td>Seasickness kit (units/person)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Item Number</td>
<td>Item</td>
<td>International (LB)/Oceans (RB)</td>
<td>Short International (LB)/Coastwise (RB)</td>
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<td>----------------------------------------</td>
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<tr>
<td></td>
<td></td>
<td>Lifeboat (LB)</td>
<td>Rescue Boat (RB)</td>
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<tr>
<td>29</td>
<td>Signal, smoke</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>30</td>
<td>Signal, hand flare</td>
<td>6</td>
<td>6</td>
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<tr>
<td>31</td>
<td>Signal, parachute flare</td>
<td>4</td>
<td>4</td>
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<tr>
<td>32</td>
<td>Skates and fenders⁶</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>33</td>
<td>Sponge⁵</td>
<td></td>
<td>2</td>
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<tr>
<td>34</td>
<td>Survival instructions</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>35</td>
<td>Table of lifesaving signals</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>36</td>
<td>Thermal protective aids²</td>
<td>10%</td>
<td>10%</td>
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<tr>
<td>37</td>
<td>Tool kit</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>38</td>
<td>Tow line³</td>
<td>1</td>
<td>1</td>
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<tr>
<td>39</td>
<td>Water (liters/person)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>40</td>
<td>Whistle</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

Footnotes:
1. Not required for boats of self-bailing design.
2. Not required for inflated or rigid-inflated rescue boats.
3. A hatchet counts towards this requirement in rigid rescue boats.
4. Oars are not required on a free-fall lifeboat; a unit of oars means the number of oars specified by the boat manufacturer.
5. Not required for a rigid rescue boat.
6. Required if specified by the boat manufacturer.
7. Sufficient thermal protective aids are required for at least 10% of the persons the survival craft is equipped to carry, but not less than two.
8. Required only if the lifeboat is also the rescue boat.

☐ Disengaging apparatus examined or tested and marked as required
  • Universal joints
  • Safety latches
  • Hooks
  • Locking knuckles
  • Frame

Notes: __________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________
________________________________________________________________________________
Radio installation for lifeboats complies with FCC and/or international convention (where required)

- Portable
- Fixed

Lifeboat operational test

- Engine operating test
- Cooling water pump
- Ahead and astern test
- Fuel tanks
- Searchlight test (passenger vessels)
- Annual fuel changed
- Extinguishers serviced

* Items tested in conjunction with Abandon Ship Drill.

Davits

- Foundations
- Moving parts
- Fittings
- Fairleads, cleats, or cruciform bits

Falls (date last renewed or end-for-ended)

Lifeboat winches

- Brakes
- Controls
- Cranks
- Covers
- Limit switches and electrical controls

Lifeboat weight test

- Light load
- Full load: date

Notes: ____________________________________________________
__________________________________________________________
__________________________________________________________
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__________________________________________________________
- Embarkation aids
  - Ladders
  - Access
  - Spans and lifelines
  - Illumination
  - Frapping and tricing lines

- Liferafts
  - Releasing gear
  - Launching instructions posted
  - Equipment and stowage
  - Annual service dates
  - Hydro release service dates
  - Weak link
  - Float-free
  - Illumination
  - Markings
  - Capacities
  - Launching devices tested

- Lifefloats and inflatable buoyant apparatus
  - Equipment
  - Markings
  - Stowage
  - Weak link
  - Float-free
  - Sea painter

Notes: ____________________________________________________
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________
☐ Ring lifebuoys
  • Lights
  • Lines
  • Smoke signals
  • Markings
  46 CFR 133.70
  SOLAS 74/78 III/7
  SOLAS 74/78 III/21
  SOLAS 74/78 III/27

☐ Line-throwing apparatus
  • Equipment
  • Required drills held
  • Magazine
  • Type
  46 CFR 133.170

☐ Lifejackets
  46 CFR 133.70
  SOLAS 74/78 III/7.2.2
  MSM Ch. C2.H.4

  Total
  • Retro-reflective tape
  • Lights
  • Whistles
  • Stowage
  • Number of lifejackets rejected by inspector
  46 CFR 131.875

☐ Lifejacket stowage
  46 CFR 133.70
  SOLAS 74/78 III/7.2
  46 CFR 131.875
  46 CFR 133.80

☐ Work vests
  46 CFR 131.720
  46 CFR 131.710
  46 CFR 131.730

☐ Immersion suits
  46 CFR 133.70
  SOLAS 74/78 III/21.4, 27.3, 30.2.7
  MSM Ch. C2.H.5
  46 CFR 131.875

☐ Placard of lifesaving signals
  46 CFR 131.950
  SOLAS 74/78 V/16

☐ Emergency instructions
  46 CFR 133.80

☐ Station bill posted
  46 CFR 131.350

Notes: ________________________________________________________________
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Fire Protection Equipment:

**NOTE:** General maintenance, and test and inspection requirements of firefighting equipment are detailed in 46 CFR 131.590 and 46 CFR 132.350, respectively.

- **Fire control plan**
  - 46 CFR 131.945
  - SOLAS 74/78 II-2/20
  - Permanently posted
  - Copy permanently stored in weathertight container outside deckhouse

- **Fire detection systems**
  - SOLAS 74/78 II-2/13
  - SOLAS 74/78 II-2/11.8
  - SOLAS 74/78 II-2/53
  - NVIC 7-80
  - Smoke / fire alarms
  - Remote pull stations
  - Smoke / flame / heat detectors and sensors

- **Portable extinguishers**
  - 46 CFR 132.210
  - 46 CFR 132.220
  - SOLAS 74/78 II-2/6
  - SOLAS 74/78 II-2/21
  - MSM Ch. C2.I.3
  - NVIC 7-70 & NVIC 13-86
  - Annually serviced
  - Bottles hydrostatically tested (every 5 years)
  - Markings (weight and hydrostatic test date)
  - Spare charges, spare extinguishers

- **Semiportable extinguishers**
  - 46 CFR 132.210
  - 46 CFR 132.220
  - SOLAS 74/78 II-2/6
  - SOLAS 74/78 II-2/21
  - MSM Ch. C2.I.4
  - Bottles weighed annually
  - Bottles hydrostatically tested (every 12 years)
  - Controls, instructions, markings
  - Hose and diffuser
  - Flexible loops tested or replaced (same as bottle)

**Required On Board**

<table>
<thead>
<tr>
<th>Location</th>
<th>Required</th>
<th>On Board</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>Class</td>
<td>Number</td>
</tr>
</tbody>
</table>

**Notes:**

____________________________________________________________________________________

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22
Fixed fire extinguishing systems

- Controls and instructions
- Alarms tested
- Piping
- Heads, distribution
- Bottles weighed annually
- Bottles hydrostatically tested (every 12 years)
- Flexible loops tested or replaced (10% per year)
- Markings
- Storage space / door
- Vent stops

46 CFR 132.350
SOLAS 74/78 II-2/21
MSM Ch. C2.I.9
NVIC 6-72, Change 1
NVIC 6-73

Fire main system and stations

- Pumps
- Piping
- Cut-off valves
- Drains

46 CFR 132.100
NVIC 6-72, Change 1
SOLAS 74/78 II-2/4
SOLAS 74/78 II-2/21
46 CFR 132.110
46 CFR 132.130

Fire stations

- Hydrants (2 effective streams)
- Nozzles and spanners
- Fog applicators (<6 feet in length, in engineroom)
- Hose
  - UL approved
  - Correct length
- Markings
- Equipment compatible

46 CFR 132.100
NVIC 6-72, Change 1
SOLAS 74/78 II-2/4
SOLAS 74/78 II-2/21
MSM Ch. C2.I.9
MSM Ch. C2.I.7
46 CFR 131.830

Total length of all hose tested

46 CFR 132.130
46 CFR 132.350
MSM Ch. C2.I.6
46 CFR 131.880

Pumps

- Controls and gauges
- Relief valves

46 CFR 132.120

Notes: ____________________________________________________
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__________________________________________________________
Structural fire protection

- Bulkheads
- Insulation

Remote controls to power ventilation marked and tested

Closures for spaces protected by fixed smothering systems

International shore connection

Fire axe

- Markings
  - 1 axe if vessel is < 100 GT
  - 2 axes if vessel is > 100 GT

Pollution Prevention:

*NOTE:* Guidance for inspecting pollution prevention items is detailed in MSM Volume II, Chapter B6. Vessels inspected under Subchapter L are required to meet 33 CFR Parts 151, 155, and 156.

- Pollution placard posted
  - 33 CFR 155.450
  - MSM Ch. B6.D.13
- MARPOL V placard posted
  - 33 CFR 151.59
- Person-in-charge designation
  - 33 CFR 155.700
- Fuel oil containment
  - Portable
  - Fixed
- Cargo oil containment
  - Size
  - Scupper closures
  - Drains
☐ Oily waste retention
  - Bilge
  - Tank

☐ Ballast discharge
  - Acceptable processing equipment

☐ Oily bilge discharge
  - Piping system
  - Stop valve
  - Outlet
  - Pump stop

☐ Prohibited oil spaces

☐ Emergency shutdown

☐ Oil transfer hose
  - Condition
  - Markings
  - Hose assembly requirements
  - Record of tests and inspections

☐ Garbage
  - Shipboard garbage properly disposed

☐ Discharge removal equipment

Notes: ____________________________________________________
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33 CFR 155.330
33 CFR 155.350
33 CFR 155.360
33 CFR 155.370
MSM Ch. B6.D.10

46 CFR 155.380

33 CFR 155.470

33 CFR 155.780

33 CFR 155.800

33 CFR 151.63
MARPOL Ax. V/3

33 CFR 155.220
Section 4: Machinery Inspection Items

Diesels:

☐ Propulsion machinery
  • Safety devices
  • Foundations
  • Guards
  • Propulsion controls
    46 CFR 58.05
    SOLAS 74/78 II-1/27

☐ Main propulsion diesels
  • Fuel lines
  • Air starting lines
  • Exhaust system
    - Protective devices
  • Lube oil system
  • Engine protection
    - Remote shutdowns
    - Overspeed protection
    - Low lube oil
    - High temperature
    - Crank case
  • Explosion covers
    46 CFR 128.320

☐ Fuel systems
  • Service and transfer pumps
  • Remote shutoff valves

☐ Automation
  • Reduced manning
    Yes
    46 CFR Part 62
    SOLAS 74/78 II-1/46-54
    MSM Vol. IV Ch. 3.L
    NVIC 1-78, Change 1
    NVIC 1-69
    NVIC 6-84
  No
  • Approved test procedure
    46 CFR 62.50
  • Satisfactory test
    46 CFR 62.30-10
  • Reviewed logs/records
  • Interviewed personnel

Notes: ____________________________________________________
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26
Electrical Systems:

NOTE: Guidance for inspecting electrical system items is detailed in NVIC 2-89.

☐ Ship’s service generators
  - Protective guards
  - Reverse power relay
  - Overspeed trip (> 110% < 115%)
  - Low oil pressure alarm / shutdown
  - 46 CFR 110.10
  - 46 CFR 111.12
  - 46 CFR 129.315
  - SOLAS 74/78 II-1/41
  - MSM Vol. IV Ch. 3.D.2

☐ Switchboards (including emergency)
  - Automatic bus transfer
  - Ground detectors
  - Personnel safeguards (guards, rails, mats, etc.)
  - Drip shields
  - Warning notices posted
  - Circuit breaker ratings
  - 46 CFR 129.330
  - MSM Ch. B1.J.4.g
  - MSM Ch. B1.J.5.g

☐ Panelboards
  - Overcurrent devices
  - Circuit directory
  - Locking device
  - 46 CFR 129.330

☐ Motor controllers
  - Drip shields
  - Disconnect switch
  - Wiring diagram posted
  - Remote shutdowns tested
  - 46 CFR 111.70
  - MSM Ch. B1.J.4.i

☐ Ventilation systems
  - Remote shutdown tested
  - Machinery space fans
  - 46 CFR 127.250
  - SOLAS 74/78 II-1/48

☐ Ship’s service lighting systems
  - Panelboards
  - Circuit directory
  - Circuit breakers
  - Globes and guards
  - Explosion-proof or watertight (where required)
  - 46 CFR 111.75
  - 46 CFR 111.40
  - 46 CFR 129.410

Notes: ____________________________________________________
_________________________________________________________
_________________________________________________________
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_________________________________________________________
Emergency generator tested
- Starting system
- Fuel system
- Overspeed trip (>110% <115%)
- Low oil pressure alarm / shutdown
- High jacket water temperature alarm
- Fixed firefighting system shutdown

Batteries
- Protection
- Charger
- Ventilation

Adequate emergency power and lighting
- Tested

Internal communications and control system
- General alarms
  - Power supply
- Telephones
- Fire detection and alarm systems
- Steering gear alarm and indicator

General electrical installation
- Cable / wiring
- Jury rigs
- Connection boxes
- Dead-end cables
- Splices
- Grounding
- Personnel safeguards
- Hazardous locations
- Portable electrical equipment

Notes: ______________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
Pressure Vessels:

- Pressure vessels hydrostatically tested or internally examined
  
<table>
<thead>
<tr>
<th>Service</th>
<th>MAWP</th>
<th>Date Tested or Examined Internally</th>
<th>Relief Valve Tested</th>
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</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

- Relief valve springs set within range

Boilers:

- Automatic auxiliary boilers
  - Controls and safety devices
  - Fuel systems
  - Alarms
  - Inspections / test

- Periodic test and inspection of boilers in accordance with 46 CFR Table 61.05-10

<table>
<thead>
<tr>
<th>Boiler ID Number</th>
<th>Date Hydrostatically Tested</th>
<th>Date Mountings Opened</th>
<th>Date Mountings Removed and Studs Examined</th>
<th>Fireside</th>
<th>Waterside</th>
<th>External</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

Notes: ________________________________________________________________
______________________________________________________________
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______________________________________________________________
Safety valves
- Escape pipes
- Drains

Fusible plugs
Examined
Renewed at this inspection

Boiler repairs in accordance 46 CFR Part 59

Low pressure heating boilers
- Safety or relief valves
- Gauges
- Thermometers
- Automatic controls
- Bottom blow off
- Water level indicator
- Connections
- Refractory

Periodic test and inspection of low pressure heating boilers in accordance with 46 CFR Table 61.05-10

<table>
<thead>
<tr>
<th>Boiler Number</th>
<th>Date Hydrostatically Tested</th>
<th>Fireside</th>
<th>Waterside</th>
<th>External</th>
</tr>
</thead>
<tbody>
<tr>
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Notes: ____________________________________________________
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30
**Auxiliary Machinery:**

- **Bilge and ballast systems**
  - Pumps
  - Eductors
  - Emergency bilge pump
  - Manifold, valves, and piping
  - Remote controls (hydraulic, pneumatic, manual, electric)
  - Strainers
  - Sounding and vent piping
  - Markings and indicators
  - Alarm
  
  46 CFR 128.440

- **Sea suctions and overboard discharges**
  
  MSM Ch. B3.F

- **Nonmetallic expansion joints**
  - External exam
  - 10-year service replacement
  
  46 CFR 61.15-12
  MSM Ch. B3.F.3

- **Compressed air system**
  - Compressor
  - Controls and gauges
  - Relief valves
  
  46 CFR 58.30

- **Refrigeration and air conditioning systems**
  
  46 CFR 128.410

- **Freshwater systems**
  - Pumps
  - Valves and controls
  - Air cushion supply line
  
  46 CFR 128.440

Notes: __________________________________________________________
__________________________________________________________
__________________________________________________________
__________________________________________________________
__________________________________________________________

31
Marine Sanitation Devices:

**NOTE:** Guidance for inspecting marine sanitation devices is detailed in MSM Volume II, Chapter C2.K. Vessels inspected under Subchapter L are required to meet 33 CFR Part 159.

- **Marine sanitation device**
  - Type I
  - Type II
  - Type III

- **Certified for inspected vessels**
  - MSM Ch. B6.F.4

- **Capacity satisfactory**
  - MSM Ch. C2.K.7.d

- **Installation**
  - Operation
  - Ventilation
  - Wiring and piping
  - Maintenance
  - Placard posted
  - Safety
  - Accessibility to parts requiring routine servicing
  - Manufacturer’s instructions available

**Notes:**

____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________
____________________________________________________________________________________

32
### Section 5: Drills

**Fire Drill:**

<table>
<thead>
<tr>
<th>Initial notifications</th>
<th>Familiarity with duties</th>
<th>Space isolation</th>
</tr>
</thead>
<tbody>
<tr>
<td>General alarms / signals</td>
<td>Familiarity with equipment</td>
<td>Smoke control</td>
</tr>
<tr>
<td>Crew response</td>
<td>Fire pumps started</td>
<td>Arrange care of passengers</td>
</tr>
<tr>
<td>Properly dressed / equipped</td>
<td>Two jets of water</td>
<td>Communications w/ bridge</td>
</tr>
<tr>
<td>Language understood by crew</td>
<td>Fire doors and dampers</td>
<td></td>
</tr>
</tbody>
</table>

(SOLAS 74/78 III/18.3; MSM Vol. II/D5.C.7.i; NVIC 6-91)

**Location:**

**Time on Scene:**

**Notes:**

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

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________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

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________________________________________________________________________
### Abandon Ship Drill:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>General alarms / signals</td>
<td>Familiarity with duties</td>
</tr>
<tr>
<td>Muster lists</td>
<td>Provide equipment</td>
</tr>
<tr>
<td>Muster of crew / passengers</td>
<td>Familiarity with equipment</td>
</tr>
<tr>
<td>Crew response</td>
<td>Lower lifeboat</td>
</tr>
<tr>
<td>Language understood by crew</td>
<td>Brake operation</td>
</tr>
<tr>
<td>Lifejackets</td>
<td>Engine start</td>
</tr>
</tbody>
</table>

(SOLAS 74/78 III/18.3; MSM Vol. II/D5.C.7.h)

Location: ____________________  Time to Water: _________

Notes: ____________________________________________________________

_________________________________________________________________

_________________________________________________________________

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_________________________________________________________________
Section 6: Appendices

**Vessel Layout:**

- Ballast tanks
- Deckhouse location
- Deck cranes
- Fuel tanks
- Cargo tanks
- Peak tanks
- Legs
Recommended US Vessel Deficiency Procedures:

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Identify deficiency.</td>
</tr>
<tr>
<td>2</td>
<td>Inform vessel representative.</td>
</tr>
<tr>
<td>3</td>
<td>Record on the <em>Deficiency Summary Worksheet</em> (next page).</td>
</tr>
<tr>
<td>4</td>
<td>If deficiency is corrected prior to end of inspection, go to Step 7.</td>
</tr>
<tr>
<td>5</td>
<td>If deficiency is unable to be corrected prior to end of inspection, issue CG-835 in accordance with table below.</td>
</tr>
</tbody>
</table>

### IF deficiency:
- Does NOT immediately impact crew/passenger safety, hull seaworthiness, or the environment, e.g.,
  - Missing placards
  - Non-metallic expansion joints if more than 10 years in service

### THEN issue CG-835:
- Allows vessel operations to be MODIFIED to meet less stringent requirements, e.g.,
  - Expired international certificates
  - Automation defect
  - Insufficient lifesaving equipment
  - That provides a specific time for correcting deficiency, e.g.,
    - “X” number of days
    - At next drydock

- DOES immediately impact crew/passenger safety, hull seaworthiness, or the environment, and cannot be modified to meet less stringent requirements, e.g.,
  - Missing or defective firefighting equipment
  - Structural defect or damage
  - That requires the deficiency to be corrected prior to operating vessel (“NO SAIL” item), e.g.,
    - Prior to carrying offshore workers
    - Prior to carrying cargo

<table>
<thead>
<tr>
<th>IF deficiency:</th>
<th>THEN issue CG-835:</th>
</tr>
</thead>
</table>
| Does NOT immediately impact crew/passenger safety, hull seaworthiness, or the environment, e.g.,
  - Missing placards
  - Non-metallic expansion joints if more than 10 years in service | Allows vessel operations to be MODIFIED to meet less stringent requirements, e.g.,
  - Expired international certificates
  - Automation defect
  - Insufficient lifesaving equipment
  - That provides a specific time for correcting deficiency, e.g.,
    - “X” number of days
    - At next drydock |

| DOES immediately impact crew/passenger safety, hull seaworthiness, or the environment, and cannot be modified to meet less stringent requirements, e.g.,
  - Missing or defective firefighting equipment
  - Structural defect or damage | That requires the deficiency to be corrected prior to operating vessel (“NO SAIL” item), e.g.,
  - Prior to carrying offshore workers
  - Prior to carrying cargo |

6 Enter CG-835 data in MIDR.

7 Enter deficiency data in MSDS.

8 Initiate Report of Violation (ROV) if necessary.
**Deficiency Summary Worksheet:**

<table>
<thead>
<tr>
<th>Name of Vessel</th>
<th>VIN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Deficiency</th>
<th>MSIS Code</th>
<th>Req’t. Issued / Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

38
Deficiencies identified should be listed with MSIS codes. At completion of inspection/examination, any outstanding deficiencies shall be entered in MIDR or PSDR as appropriate. All deficiencies found (outstanding and completed) shall be entered in the Deficiency Summary. Worklist items, which serve only as memory joggers to complete inspection/examination (e.g., test emergency fire pump), should not be coded as deficiencies.

**MSIS Codes for Deficiencies:**

<table>
<thead>
<tr>
<th>Deficiency</th>
<th>MSIS Code</th>
<th>Req’t. Issued / Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BS</th>
<th>Ballast</th>
<th>DC</th>
<th>Dry Cargo</th>
<th>IC</th>
<th>I/C Engine</th>
</tr>
</thead>
<tbody>
<tr>
<td>BI</td>
<td>Bilge</td>
<td>ES</td>
<td>Electrical</td>
<td>LS</td>
<td>Lifesaving</td>
</tr>
<tr>
<td>BA</td>
<td>Boiler, Aux.</td>
<td>FF</td>
<td>Firefighting</td>
<td>MI</td>
<td>Miscellaneous</td>
</tr>
<tr>
<td>BM</td>
<td>Boiler, Main</td>
<td>FL</td>
<td>Fuel</td>
<td>NS</td>
<td>Navigation</td>
</tr>
<tr>
<td>CS</td>
<td>Cargo</td>
<td>GS</td>
<td>General Safety</td>
<td>PP</td>
<td>Propulsion</td>
</tr>
<tr>
<td>DM</td>
<td>Deck Machinery</td>
<td>HA</td>
<td>Habitation</td>
<td>SS</td>
<td>Steering</td>
</tr>
<tr>
<td>DL</td>
<td>Doc., Lics., Pmts.</td>
<td>HU</td>
<td>Hull</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Conversions:**

### Distance and Energy

<table>
<thead>
<tr>
<th>Unit</th>
<th>Conversion Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kilowatts (kW)</td>
<td>X 1.341</td>
</tr>
<tr>
<td>Feet (ft)</td>
<td>X 3.281</td>
</tr>
<tr>
<td>Long Ton (LT)</td>
<td>X 0.98421</td>
</tr>
</tbody>
</table>

= Horsepower (hp)

= Meters (m)

= Metric Ton (t)

### Liquid *(Note: Values are approximate.)*

<table>
<thead>
<tr>
<th>Liquid</th>
<th>bbl/LT</th>
<th>m³/t</th>
<th>bbl/m³</th>
<th>bbl/t</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshwater</td>
<td>6.40</td>
<td>1.00</td>
<td>6.29</td>
<td>6.29</td>
</tr>
<tr>
<td>Saltwater</td>
<td>6.24</td>
<td>0.975</td>
<td>6.13</td>
<td>5.98</td>
</tr>
<tr>
<td>Heavy Oil</td>
<td>6.77</td>
<td>1.06</td>
<td>6.66</td>
<td>7.06</td>
</tr>
<tr>
<td>DFM</td>
<td>6.60</td>
<td>1.19</td>
<td>7.48</td>
<td>8.91</td>
</tr>
<tr>
<td>Lube Oil</td>
<td>7.66</td>
<td>1.20</td>
<td>7.54</td>
<td>9.05</td>
</tr>
</tbody>
</table>

### Weight

<table>
<thead>
<tr>
<th>Unit</th>
<th>Conversion Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Long Ton</td>
<td>2240 lbs</td>
</tr>
<tr>
<td>1 Metric Ton</td>
<td>2204 lbs</td>
</tr>
<tr>
<td>1 Short Ton</td>
<td>2000 lbs</td>
</tr>
<tr>
<td>1 Cubic Foot</td>
<td>7.48 gal</td>
</tr>
<tr>
<td>1 Barrel (oil)</td>
<td>5.61 ft = 42 gal = 6.29 m³</td>
</tr>
<tr>
<td>1 psi</td>
<td>0.06895 Bar = 2.3106 ft of water</td>
</tr>
</tbody>
</table>

### Temperature: Fahrenheit = Celsius *(°F = 9/5 °C + 32 and °C = 5/9 (°F – 32))*

<table>
<thead>
<tr>
<th>°F</th>
<th>°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>-17.8</td>
</tr>
<tr>
<td>32</td>
<td>0</td>
</tr>
<tr>
<td>40</td>
<td>4.4</td>
</tr>
<tr>
<td>50</td>
<td>10.0</td>
</tr>
<tr>
<td>60</td>
<td>15.6</td>
</tr>
<tr>
<td>70</td>
<td>21.1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>°F</th>
<th>°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>93.3</td>
</tr>
<tr>
<td>32</td>
<td>0</td>
</tr>
<tr>
<td>90</td>
<td>32.2</td>
</tr>
<tr>
<td>100</td>
<td>37.8</td>
</tr>
<tr>
<td>110</td>
<td>43.3</td>
</tr>
<tr>
<td>120</td>
<td>48.9</td>
</tr>
<tr>
<td>150</td>
<td>65.6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>°F</th>
<th>°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>260</td>
</tr>
<tr>
<td>700</td>
<td>537.8</td>
</tr>
</tbody>
</table>

### Pressure: Bars = Pounds per square inch

<table>
<thead>
<tr>
<th>Bars</th>
<th>psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Bar</td>
<td>14.5</td>
</tr>
<tr>
<td>2 bars</td>
<td>29.0</td>
</tr>
<tr>
<td>3 Bars</td>
<td>43.5</td>
</tr>
<tr>
<td>4 Bars</td>
<td>58.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bars</th>
<th>psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Bars</td>
<td>72.5</td>
</tr>
<tr>
<td>6 Bars</td>
<td>87.0</td>
</tr>
<tr>
<td>7 Bars</td>
<td>101.5</td>
</tr>
<tr>
<td>8 Bars</td>
<td>116.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bars</th>
<th>psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 Bars</td>
<td>130.5</td>
</tr>
<tr>
<td>10 Bars</td>
<td>145.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bars</th>
<th>psi</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>537.8</td>
</tr>
</tbody>
</table>