

# FUEL SAMPLE RETENTION CABINET



## MARPOL 73/78 ANNEX VI REGULATION 18

Annex VI of MARPOL 73/78, Regulations for the Prevention of Air Pollution from Ships, had an effective date of May 19, 2005. MARPOL Annex VI established regulatory requirements for ships, platforms, and drilling rigs that must be satisfied in order to obtain an International Air Pollution Prevention (IOPP) Certificate. MARPOL Annex VI addressed the areas of:

- Ozone depleting substances (refrigeration and fire-fighting systems)
- Nitrogen oxides - NO<sub>x</sub> emissions from diesel engines
- Sulphur oxides - SO<sub>x</sub> emissions from diesel engines
- Volatile Organic Compounds (VOC) emissions from tankers
- Emission Control Areas (ECA)
- Shipboard incineration

## BUNKER DELIVERY NOTE

For each ship above 400 gross tons engaged in voyages, “details of the fuel oil for combustion purposes delivered to and used on board shall be recorded by means of a bunker delivery note,” which shall contain at least the information specified below:

- Name and IMO number of receiving ship
- Port (of fuel delivery)
- Date of commencement of delivery
- Name, address and telephone number of fuel supplier
- Product name(s)
- Quantity in metric tons
- Density at 15 °C, kg/m<sup>3</sup>
- Sulphur content %m/m

The regulation also requires every bunker delivery note to be retained in a readily accessible place onboard the ship for a period of three years from the delivery date, and be accompanied by a representative sample of the fuel oil delivered. This retained sample of fuel is to be used solely for



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compliance with MARPOL Annex VI. All MARPOL Annex VI retained samples must be kept under the ship’s control until the corresponding fuel oil is substantially consumed, but not less than 12 months from date of delivery.

## REPRESENTATIVE FUEL SAMPLING

Using an in-line fuel sampling device of a type identified in the Guidelines for the Sampling of Fuel Oil for Determination of Compliance with MARPOL Annex VI, a representative sample for all fuels bunkered must be collected. The representative sample should be collected at the receiving ship’s bunker manifold and should be drawn continuously throughout the bunker delivery period. To maintain the integrity of the sample being drawn and prevent contamination, a tamper-proof means must be provided to seal the sampling device during the bunkering period.

Sampling equipment types available for obtaining a representative fuel sample include:

- Manual valve-setting continuous-drip sampler
- Flow-proportion automatic sampler
- Time-proportion automatic sampler

The DREW DRIP-TEC and DREW Bunker Sampler continuous-drip samplers are available from Drew Marine to satisfy the requirements according to MARPOL Annex VI. For additional information on these fuel line samplers, refer to separate product literature or contact your Drew Marine representative.

## SAMPLE DISTRIBUTION

The representative sample drawn during bunkering, often



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collected in a 5 L or 10 L Cubitainer<sup>1</sup> container, is officially known as the primary sample. Upon completion of the bunkering process, the primary sample is poured into smaller portions for the purpose of creating the MARPOL Annex VI retained sample, as well as samples for ship retained sample, supplier sample, and laboratory analysis, as applicable.

The prepared samples should be homogeneous, clean, and of sufficient quantity to perform tests as may be required, but not less than 400 ml. The container should be filled to 90 percent + 5% capacity and sealed.

To maintain sample integrity, the prepared samples must be sealed immediately following collection using a tamper-proof security seal, with a unique means of identification. The prepared samples' seals should be applied by the supplier's representative in the presence of the ship's representative and properly labeled for identification.

## RETAINED SAMPLE STORAGE

The MARPOL Annex VI retained samples should be kept in a safe storage location outside of the ship's accommodation areas to safeguard personnel from possible exposure to vapors. They should be stored in a sheltered location to prevent exposure to direct sunlight and elevated temperatures.

The Fuel Sample Retention Cabinet provides a total solution to the requirement for fuel sample retention in accordance with MARPOL Annex VI. The vented and lockable cabinet, was designed to store the required components to collect representative fuel samples, seal, and label the retained samples, as well as store them with bunker delivery notes in a secure location available for immediate inspection by port state authorities worldwide.

## ORDER INFORMATION

DESCRIPTION	PCN
Fuel Sample Retention Cabinet (Empty).	1AA7636
Fuel Sample Bottle Kit (40 bottles).	1AA9829
5 L Cubitainer Kit, 12 pcs.	1AA9830
10 L Cubitainer Kit, 12 pcs.	1AA9831

OILTEST MARINE SERVICES		Bunker Sample
Vessel/Installation Name		IMO/no:
Bunker Date (dd/mm/yy):	Sampling Date (if different):	
Port / Location:	Supplier:	
Delivery Bunker Tanker/Terminal/Installation:		No.: .....
Grade Ordered:	Quantity MT:	
Density <sup>15</sup> C / API Gravity:	Sulfur %:	
Viscosity 50/40 C:	Water %:	
<b>Sampling Point:</b> <input type="checkbox"/> Vessel Manifold <input type="checkbox"/> Bunker Tanker Manifold <input type="checkbox"/> Other .....		
<b>Sampling Method:</b> <input type="checkbox"/> Continuous drip <input type="checkbox"/> Automatic <input type="checkbox"/> Other/Spot/Tank .....		
<b>Is this MARPOL Annex VI sample?</b> <input type="checkbox"/> NO <input type="checkbox"/> YES (If yes, Retain onboard for one year, do not send to the lab).		
Vessel's Repr.		Supplier's Repr.
Name (print)	Name (print)	Name (print)
Signature	Signature	Signature

▶ **Contact your Drew Marine representative for more information**

Drew Marine maintains Safety Data Sheets on all of its products. These documents contain health and safety information for the development of appropriate product handling procedures to protect your employees. Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Drew Marine products.



**Drew Marine®**

**100 South Jefferson Road  
Whippany, NJ 07981 USA  
1-973-526-5700  
Drew-Marine.com**

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