TEST KIT SEWAGE TREATMENT

For testing the correct functioning of onboard sewage treatment plants and helping them pass inspections.

FEATURES & BENEFITS

- **Suitable for testing of sewage treatment plants installed after 1 January 2010**
- **Direct avoidance of deficiencies and detentions**
- **Compliant with IMO/Marpol testing requirements**
- **Contains all necessary tests**
- **Most complete and cost-efficient solution in the market**
- **Can be couriered anywhere**

APPLICATIONS

Port State Control officers routinely inspect the correct functioning of onboard sewage treatment plants. Deficiencies relating to these plants very frequently appear on inspection reports and can lead to costly detentions. Similarly, Flag State Administrations prescribe periodic assessments of sewage treatment plants, while Classification Societies also conduct surveys of these systems.

Sewage treatment plants are sensitive systems that can easily become unbalanced, for example, through the underdosing or overdosing of chemicals.
Vecom Marine's TEST KIT SEWAGE TREATMENT enables crew to identify errors before an official inspection. It was specifically designed in accordance with the testing standards set out in IMO regulations MEPC.2(VI), MEPC.159(55) and MEPC.227(64). This provides crew with a cost-efficient way to carry out tests similar to those performed by certified testing organisations and identify any issues before an inspection. Furthermore, the mere presence of this kit onboard demonstrates the vessel's commitment to regulatory compliance, which is a significant factor in an inspector's decision to exclude minor issues from an official deficiency list.

IMO regulations MEPC.2(VI), MEPC.159(55) and MEPC.227(64) contain the following testing requirements for sewage effluent, to be carried out during a period of at least 10 days:

	Accepted test results			
Standards as per MEPC.2(VI), MEPC.159(55) and MEPC.227(64)	Treatment plants installed before 1/1/2020:	**Treatment plants installed on or after 1/1/2020:**	Passenger ships intending to discharge into Baltic Sea:	*Minim. # tests*
Thermotolerant coliforms (faecal coliforms)	Not more than 250 coli-forms/100ml	Not more than 100 coli-forms/100ml	Not more than 100 coli-forms/100ml	*40*
Total Suspended Solids (TSS)	Not more than 100 mg/l above that of ambient waters	Not more than 35 mg/l	Not more than 35 mg/l	*40*
Biochemical Oxygen Demand (BOD)	Not more than 50 mg/l	Not more than 25 mg/l	Not more than 25 mg/l	*40*
Chemical Oxygen Demand (COD)	n/a	Not more than 125 mg/l	Not more than 125 mg/l	*40*
pH	n/a	Between 6 and 8.5	Between 6 and 8.5	*40*
Free chlorine	n/a	Below 0.5 mg/l	Below 0.5 mg/l	*40*
Total nitrogen	n/a	n/a	Not more than 20 mg/l	*40*
Total phosphorus	n/a	n/a	Not more than 1 mg/l	*40*

For product characteristics and for the nature of special risks and safety advice consult our MSDS.
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The TEST KIT SEWAGE TREATMENT facilitates complete and efficient testing of sewage effluent from treatment plants installed on or after 1 January 2020, as well as those from before 2020. The kit does not include the nitrogen and phosphorus tests that are needed for passenger ships in the Baltic Sea.



TEST KIT CONTENTS

TEST KIT SEWAGE TREATMENT comprises the following tests:

Test subject	Testing method	Number of tests	Compliant with regulations
Thermotolerant coliforms (faecal coliforms)	Colilert Test	50	Yes
Total Suspended Solids (TSS)	Turbidity Tube	Unlimited	Yes
Biochemical Oxygen Demand (BOD)	Permanganate Value Test	41	Yes
Chemical Oxygen Demand (COD)	Permanganate Value Test	41	Yes
pH	pH Test Strips 0-14	100	Yes
Free chlorine	Comperator with DPD Tablet No.1	50	Yes

INCUBATOR

The Colilert Test requires heating of samples in an incubator (a small portable oven) during 24 hours. If there is no incubator present on board, Vecom Marine can supply its INCUBATOR FOR BACTERIA SAMPLES. It is a compact device with an extremely robust and durable design, suitable for incubating both sewage effluent and potable water samples.



CONCLUSION

The TEST KIT SEWAGE TREATMENT is one the few kits on the market that comply with all MEPC requirements. It provides a comprehensive and cost-effective solution for assessing sewage treatment plant performance, helping to avoid deficiencies or detentions during Port State Control inspections.

STANDARD PACKING

The TEST KIT SEWAGE TREATMENT is provided in a sturdy briefcase of 45 x 37 x 14 cm, weighing 3 Kg.

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