

## CERTIFICATE OF TYPE TEST FOR: PROCESS UNITS FOR ATTACHMENT TO EXISTING OILY-WATER SEPARATING EQUIPMENT

### THIS IS TO CERTIFY THAT:

The equipment listed has been examined and tested in accordance with the requirements of the specifications for process units intended for attachment to existing oily-water separators contained in Appendix I to the Annex to IMO Assembly Resolution A.444(XI). The system tested comprised the following components and this certificate is valid only for such a system.

\_\_\_\_\_  
NAME OF ADMINISTRATION

By: **Panama Maritime Documentation Services, I nc.**

Type or model \_\_\_\_\_

(<sup>1</sup>) System manufactured by: \_\_\_\_\_ Including: \_\_\_\_\_

(<sup>1</sup>) Coalescer manufactured by: \_\_\_\_\_  
to Drawing Nos. \_\_\_\_\_ (Type or model) \_\_\_\_\_

(<sup>1</sup>) Filter manufactured by: \_\_\_\_\_  
to Drawing Nos. \_\_\_\_\_ (Type or model) \_\_\_\_\_

(<sup>1</sup>) Control equipment manufactured by: \_\_\_\_\_  
to Drawing Nos. \_\_\_\_\_ (Type or model) \_\_\_\_\_

Maximum throughput of system \_\_\_\_\_ m<sup>3</sup>/h

Measured oil content of effluent less than \_\_\_\_\_ 15 ppm /100 ppm<sup>(1)</sup>

A copy of this Certificate should be carried at all times aboard a vessel fitted with this equipment.

**Limiting Conditions Imposed:** \_\_\_\_\_

This certificate is valid until: \_\_\_\_\_ , of \_\_\_\_\_ of \_\_\_\_\_  
(Day) (Month) (Year)

Issued at : \_\_\_\_\_ , \_\_\_\_\_ of \_\_\_\_\_ of \_\_\_\_\_  
(Place of issue of Certificate) (Day) (Month) (Year)

\_\_\_\_\_  
Name and Signature of authorized official issuing the Certificate

**Panama Maritime Documentation Services,  
I nc.**

<sup>(1)</sup> Delete as appropriate

Note: Test data and results attached as Appendix

APPENDIX

Data and results of the tests conducted on the equipment listed in accordance with the requirements of the specifications for process units intended for attachment to existing Oily-Water Separating Equipment contained in Appendix 1 to the Annex to IMO Assembly resolution No. A.444(XI) and Part IV of the Annex to the Recommendation contained in IMO Assembly resolution A.393(X).

System manufactured by: \_\_\_\_\_ Including: \_\_\_\_\_

(<sup>1</sup>) Coalescer manufactured by: \_\_\_\_\_  
to Drawing Nos. \_\_\_\_\_

(<sup>1</sup>) Filter manufactured by: \_\_\_\_\_  
to Drawing Nos. \_\_\_\_\_

(<sup>1</sup>) Control equipment manufactured by: \_\_\_\_\_  
to Drawing Nos. \_\_\_\_\_

Maximum throughput of system \_\_\_\_\_ m<sup>3</sup>/h

Test Location \_\_\_\_\_

Method of sample analysis: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Samples analysed at: \_\_\_\_\_

Diagram of test rig attached \_\_\_\_\_

Diagram of sampling arrangement attached \_\_\_\_\_

Details of test pump

Type \_\_\_\_\_

Capacity \_\_\_\_\_ (m<sup>3</sup>/h)

Speed \_\_\_\_\_ rpm

Oil float or oil level indicator operation \_\_\_\_\_

The results of the vibration tests mentioned in paragraph 2.3 of the specifications contained in Appendix 1 to the IMO Resolution No. A.444(XI), are satisfactory.

The Equipment is capable of reliable operation at angles of up to 22.5° in any plane from normal operational position.

Test Oil (A)

Relative density \_\_\_\_\_ at 15°C  
Viscosity \_\_\_\_\_ Centistokes at 37.8°C  
Flash Point \_\_\_\_\_ °C  
Ash Content \_\_\_\_\_ %  
Water content at star of test \_\_\_\_\_ %

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Test Oil (B)

Relative density \_\_\_\_\_ at 15°C  
Viscosity \_\_\_\_\_ Centistokes at 37.8°C  
Flash Point \_\_\_\_\_ °C  
Ash Content \_\_\_\_\_ %  
Water content at star of test \_\_\_\_\_ %

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Test Water

Relative density \_\_\_\_\_ at 15°C  
Solid matter present \_\_\_\_\_

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Test Temperatures

Ambient \_\_\_\_\_ °C  
Test Oil (A) \_\_\_\_\_ °C  
Test Oil (B) \_\_\_\_\_ °C  
Test Water \_\_\_\_\_ °C

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**TEST RESULTS (ppm)**

Test Oil (A)		Test Oil (B)		Vm – maximum throughput of equipment	Ve – volume of Equipment	Not less than $2 V_e / V_m$	Conditioning
Influent	Effluent	Influent	Effluent				
							more than 3000 ppm
				1		1	
				2		1	
				3		1	

TIME (hours) ↓

Issued at : \_\_\_\_\_, \_\_\_\_\_ of \_\_\_\_\_ of \_\_\_\_\_  
(Place of issue of Test) (Day) (Month) (Year)

\_\_\_\_\_  
 Name and Signature of authorized official issuing the Test Results  
**Panama Maritime Documentation Services, I nc.**