

## Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the LR Type Approval System.

This certificate is issued to:

<b>PRODUCER</b>	Norsk Analyse AS Wirgenesvei 10 N-3157 Barkåker Norway
<b>PLACE OF PRODUCTION</b>	Svensk Miljö och Processanalys AB Nyängsgatan 5 S-66434 Grums Sweeden
<b>DESCRIPTION</b>	Exhaust Gas Monitoring System measuring CO2 and SO2 contents based on dry basis NDIR principle.
<b>TYPE</b>	ShipCEMS
<b>APPLICATION</b>	Marine, Offshore and Industrial applications in environmental categories ENV1, ENV2, defined in LR Test Specification No.1: 2002 where the Test Specification is applicable for the service.
<b>STANDARDS</b>	IEC60945 IEC60529
<b>MEASURING RANGE</b>	SO2: 0-50 ppm/ 0-1000 ppm Full Scale CO2: 0-1 %/ 0-10 % Full Scale
<b>Certificate No.</b>	13/70009
<b>Issue Date</b>	14 November 2013
<b>Expiry Date</b>	13 November.2018
<b>Sheet</b>	1 of 2

Lloyd's Register EMEA  
Strandvejen 104A, DK-2900 Hellerup

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Poul Erik Hansen  
Copenhagen Tech Support Office

## OTHER CONDITIONS

When used for continuously monitoring of exhaust gas from an EGC, the installation and performance as per MEPC 184(59) Annex 9 section 6, 7, 8 is required.

Software has been tested to an extend required to verify correct functions during Type Approval testing.

*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested*

*The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."*

*The Design Appraisal Document No TA13/70009 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

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