

CERTIFICATE OF CONFORMITY - EC

Certificate No:

MEDG0000005
DNV GL

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the On board exhaust gas cleaning systems

with type designation and item/batch number

GTM-R15 S.N.0001 installed onboard LIBERTY OF THE SEAS (IMO 9330032)

Issued to

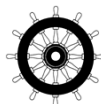
Yara Marine Technologies AS
Oslo, Norway

is, by design assessment and product verification, in accordance with Module G in the Directive and found to comply with

Annex A.1, item No. A.1/2.10 and Annex B, Module G in the Directive. Marpol 73/78 as amended, Annex VI Regulation 4 and IMO Res. MEPC.259(68)

Further details of the equipment and conditions for certification are given overleaf.

Høvik, 2015-09-17
for **DNV GL AS**



Notified Body No.: **0575**

Vidar Dolonen
Head of Department

DNV GL local office:
Oslo Machinery

Tin Nguyen
Surveyor

Job Id: **344.1-003731-2**
Certificate No: **MEDG000000S**

Product description

GTM 15 is an inline hybrid (open/closed) loop wet EGC unit. It passes the exhaust gases from the combustion unit through seawater. The wash water absorbs the oxides of sulphur (mainly SO₂) and particulates from the exhaust gas resulting from the combustion processes. The particulates are removed in a cyclonic water treatment process, and the resulting sludge collected in a separate tank. The treated wash water can be discharged to sea as long as discharge criteria are fulfilled.

Application/Limitation

Exhaust Gas Cleaning Systems are intended for reducing the SO_x emissions in a level below the current and upcoming requirements in world wide and ECA areas. In scheme B, Compliance with emission requirements demonstrated by continuous exhaust gas monitoring. Monitoring system should be approved by the Administration.

The monitoring equipment is to have yearly surveys according to MEPC.259(68).

This certificate is only valid for diesel generator no.1 where exhaust gas cleaning system is installed.

Type Examination documentation

Tests carried out

DNV GL Survey report MEPC 601, ID 26180, Doc.No:19963043 dated 10/09/2014
Det Norske Veritas Survey report ID 26180 Job Id 311258 dated 27/10/2012
Verification Report DNV Report AGR-1-4VD7FV-1 dated 29/06/2012
Det Norske Veritas Statement of compliance dated 29/06/2012

Marking of product

The product is to be indelibly marked with name of manufacturer, type designation, dimensions and date of manufacture, according to LSA code item 4.4.1.2 and the mark of conformity. In addition, the manufacturer shall affix the Mark of Conformity followed by DNV Notified Body No. and the two last digits of the production year.

END OF CERTIFICATE