Certificate No: LR2523678QAES
Issue Date: 05/03/2025
Expiry Date: 22/04/2028

Quality Assurance Engineering Scheme Certificate

Manufacturer	**Caterpillar Inc (Indiana)**
Address	3701 State Road 26 East, Lafayette, Indiana, 47905, United States
Scheme Type	**Quality Assurance Scheme for Machinery (QAM)**
Approval Number	**QAM 147**
Place of Production	**Caterpillar Inc.** 1300 4-H Park Road, Pontiac, IL, 61764, United States
Product Type	After Treatment Selective Catalytic Reduction Units and Controls
Product Name	Airless SCR After treatment, Urea Injection NOx reduction. Air Assisted SCR After treatment, Urea Injection NOx reduction.

This is to certify that the above named manufacturer has been approved by LR North America Inc in accordance with the requirements set out in the Quality Assurance Scheme for Machinery (QAM) within the Lloyd's Register Rules and Regulations for the Classification of Ships.

The quality system and procedures at these works covering production methods, inspection and testing, quality control and general standards of workmanship have been examined and are approved for the manufacture of the undernoted product(s) at the stated place(s) of production.

Such items will be eligible for fitting in ships or other installations classed or intended for classification subject to satisfactory installation under the usual conditions of survey and testing.
This approval is conditional upon the product(s) manufactured and certified under this Scheme being in accordance with the relevant requirements of the Rules and Regulations for the Classification of Ships and the organisation and procedures being audited by the Surveyors at agreed intervals.

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Emanuele Buoso

Lead Specialist - Quality Assurance Engineering Systems, Americas to Lloyd's Register North America, Inc.

820 Gessner Rd., Ste. 300, Houston, Texas, 77024,
United States

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For details of the scope of approval see subsequent pages of this certificate.

This certificate is issued to the named manufacturer and is valid until the expiry date specified. Lloyd's Register is to be notified of any change that may affect the validity of this certificate and reserves the right to cancel or withdraw this certificate.

The Quality Assurance Scheme for Machinery is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations for the Classification of Ships are complied with.

Scope of products covered by the scheme:

1. Airless SCR After treatment, Urea Injection NOx reduction.

SCR After treatment and control systems for Caterpillar (C7.1, C9.3, C18, C32) diesel engines.

2. Air Assisted SCR After treatment, Urea Injection NOx reduction.

SCR After treatment and control systems for Caterpillar (C18, C32, 3500, C280 and MAK).

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