News Release

ダイハツインフィニアース株式会社

2026年11月６日

メタノールデュアルフューエル機関向け昇圧ポンプ構造についてAiP取得

当社は、メタノールデュアルフューエル機関の開発を進めており、2027年に商用初号機の出荷を予定しております。

本機関ではメタノール昇圧ポンプを機関付きとし、必要な噴射圧（数十MPa）まで昇圧する構造を採用しました。これにより、燃料調整室から機関までのメタノールの圧力を大幅に低減することが可能となりました。

本構造を採用するにあたり、昇圧ポンプからのメタノール燃料漏洩リスクなどに対する必要な安全対策について、日本海事協会およびDNVと協議を重ね、両船級協会より下記のAiP（Approval in Principle：基本設計承認）をこの度取得しました。

当社は今後も、次世代燃料対応機関の開発を進め、ゼロ・エミッションの実現と、国際海運分野における脱炭素化に取り組むとともに、人々の暮らしの安心安全を支えることで、持続可能な社会の実現に貢献してまいります。


ClassNK
NIPPON KAIJI KYOKAI

Document No. KC26MM0353-HI
Date: 6 August 2026

APPROVAL IN PRINCIPLE

Safety Concept for Methanol Dual Fuel Engine
developed by DAIHATSU INFINEARTH MFG. CO., LTD.

THIS IS TO CERTIFY THAT Approval in Principle is granted to DAIHATSU INFINEARTH MFG. CO., LTD.

The AiP is for the Safety Concept of Methanol Dual Fuel Engine based on "Guidelines for Ships Using Alternative Fuels: Part A Guidelines for Ships Using Methyl, Ethyl Alcohol as Fuel (Edition 3.1.1)", "Annex 1.1.1-3, Part GF of NK Rules (based on IACS UR M78 Rev.2)" and other applicable class Rules.

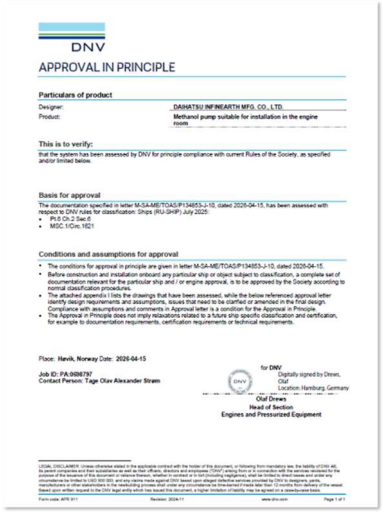
The documents specified in the annex of this AiP have been reviewed, and it has been verified that the design and development concept of the methanol dual engine is feasible for the intended application.

Conditions on this approval are set out in the annex of this AiP.

For the final approval of the engine, a complete set of documentation is to be approved by the Society in accordance with relevant class rules.

(Taro Okamoto)
General Manager of Machinery Department
NIPPON KAIJI KYOKAI

AiP証書：日本海事協会


DNV

APPROVAL IN PRINCIPLE

Particulars of product

Designer: DAIHATSU INFINEARTH MFG. CO., LTD.
Product: Methanol pump suitable for installation in the engine room

This is to verify:

that the system has been assessed by DNV for principle compliance with current Rules of the Society, as specified and/or limited below.

Basis for approval

The documentation specified in letter M-SA-ME/TOAS/P134853-J-10, dated 2026-04-15, has been assessed with respect to DNV rules for classification: Ships (RU-SHIP) July 2025:

- Pt.6 Ch.2 Sec.6
- MSC.1/Circ.1621

Conditions and assumptions for approval

- The conditions for approval in principle are given in letter M-SA-ME/TOAS/P134853-J-10, dated 2026-04-15.
- Before construction and installation onboard any particular ship or object subject to classification, a complete set of documentation relevant for the particular ship and / or engine approval, is to be approved by the Society according to normal classification procedures.
- The attached appendix 1 lists the drawings that have been assessed, while the below referenced approval letter identify design requirements and assumptions, issues that need to be clarified or amended in the final design. Compliance with assumptions and comments in Approval letter is a condition for the Approval in Principle.
- The Approval in Principle does not imply relaxations related to a future ship specific classification and certification, for example to documentation requirements, certification requirements or technical requirements.

Place: Hevik, Norway Date: 2026-04-15

Job ID: PA.0026797
Contact Person: Tage Olav Alexander Strøm

for DNV
Digitally signed by Drews, Olaf
Location: Hamburg, Germany
Olaf Drews
Head of Section
Engines and Pressurized Equipment

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Form code: APR 311 Revision: 2024-11 www.dnv.com Page 1 of 1

AiP証書：DNV

・一般財団法人 日本海事協会：Safety Concept for Methanol Dual Fuel Engine developed by DAIHATSU INFINEARTH MFG.CO.,LTD.

・DNV：Methanol pump suitable for installation in the engine room

以 上

お問い合わせ先

コーポレート本部 コーポレート企画部 広報担当

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