NK-CMAXS Alliance Members

CMAXS provides services in the following framework so that devices from various manufacturers can be managed through an integrated system.

Customer

Contract

ClassNK Consulting Service Co., Ltd.

Ship Data Center Co., Ltd.

Diesel United Ltd. / Hitachi Zosen Corporation

Main engine

Auxiliary engine

Mitsubishi Engineering & Shipybuilding Co., Ltd. / Makita Corporation

DAIHATSU DIESEL MFG. CO., LTD.

Auxiliary devices

Naniwa Pump Mfg. Co., Ltd., and others


At present, the only main engines that can coordinate with our DAIHATSU auxiliary engines are products from alliance member manufacturers. For support for main engine manufactures, please contact ClassNK Consulting Service Co., Ltd. If you are considering installing a CMAXS sensor on our main engine, please consult with either ClassNK Consulting Service Co., Ltd. or our company.

DAIHATSU DIESEL MFG. CO., LTD.

http://www.dhtd.co.jp

DAIHATSU NEW SERVICE SOLUTIONS

Life-cycle Cost Reduction and Safer Vessel Operation, Via Cloud-based Engine Support
Thanks to the CMAXS common platform, our next-generation solution provides centralized monitoring of the main engine, auxiliary engines and auxiliary devices, supporting diagnosis and maintenance.

This new, Cloud-based engine condition monitoring (ECM) and diagnostic solution supports the safer operation of vessels and helps to reduce life-cycle costs.

Four key advantages of the system

1. Self-contained onboard engine support
   - Early identification of potential faults through continuous engine diagnosis prevents serious engine failures.
   - Troubleshooting guides assist with the customer’s own maintenance work.

2. Simple and easy operation
   - Integrated operation of the main engine, auxiliary engine and auxiliary devices.
   - User-friendly operation through photographs, graphs, image data, alarm monitoring functions and an intuitive user interface.

3. Onboard and onshore engine “visualization”
   - Fetch overviews and targeted vessel monitoring through the CMAXS Web Service.
   - Ascertain a vessel’s condition and activate any measures necessary via the onshore “Ship Data Center”.
   - Retrieve a target vessel’s data at any time thanks to safe Cloud storage.

4. A total support solution.
   - Direct analysis of engine data allows DAIHATSU to provide quick and relevant support.
   - Periodic diagnostic reports provide reassurance for customers.

CMAXS Web Service

Communication between vessel and shore via communication satellite

CMAXS Web Service

DAIHATSU DIESEL

Vessel owner / vessel management company

System Overview

Diagnosis and troubleshooting functions

Provides preventive maintenance alerts to correct incipient failures before they develop.

Diagnosis and analysis for peace of mind.

The system detects medium- to long-term condition changes. An alert shows when deviations reach abnormal levels.

Click “Condition Monitor,”

Click “Troubleshooting.”

诊断功能

Check details of an engine’s condition via the diagnosis screen.

诊断和故障排除功能

显示最可能引发故障的部件，以及对应的设备管理显示屏。

故障排除功能

通过单击“设备管理”，您可以访问单个设备的管理屏幕。

CMAXS LC-A/e-GICSX

In the CMAXS Web Service, a dedicated website for centrally managing the CMAXS-contracted vessels is made available. By accessing this website via the internet, it is possible to ascertain the condition of any vessel from any location. As the same data can be viewed by jumping from the fleet list to the same monitoring screen as that onboard the vessel, you can address device management problems from the same viewpoint as that of the crew.