Certificate No: **2606171156506354**
TL Project No: **22-2561**

TYPE APPROVAL CERTIFICATE

This is to certify that the

Diesel Engine, Monitoring and Control Equipment

Manufacturer : **SOCIETE INTERNATIONALE DES MOTEURS BAUDOUIN**

Address : **Technoparc du Brégadan, 13260 Cassis, FRANCE**

Product Type : **BMS Master**

Reference Rule : **TL Rules, Part B, Chapter 4-1, Automation, 01.01.2022**
TL Rules, Part B, Chapter 4, Machinery, 01.07.2022
TL Rules, Part B, Chapter 5, Electric, 01.07.2022

Subject to the conditions referred to in the following pages, this certificate is valid until **21.06.2031**
Surveyor: **Abdullah DEMİRCİ**
-

Issued at **İstanbul** on **22.06.2026**

This document is electronically signed and does not require a manual signature

Click here for the verification website

Emrah SÖĞÜTÇÜ
New Building Division Manager
TÜRK LOYDU

Expire Date of Previous Certificate: -

For Information Only

This certificate is subject to terms and conditions described below:
Any significant change in design or construction may render this Certificate invalid. Certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. This certificate is not valid for products without marking above mentioned. The manufacturer should notify TÜRK LOYDU of any modifications or changes to equipment in order to obtain valid certificate. This certificate shows that tested specimens as representative of the product complies of the TÜRK LOYDU rules, and relevant international instruments that apply to it.

Product	**: Diesel Engine, Monitoring and Control Equipment**
Type of Product	**: BMS Master**
Product Description	**: Engine Control Panels for control, safety and alarm monitoring of marine diesel propulsion engines, generator sets and emergency gensets fitted on-board.**
EMC / EMI	**: General Power Distribution Zone**
Rated Input Voltage	**: 24VDC (Main and Back-Up)**
Ingress protection (IP) rating	**: IP66**
Performed Tests	**: Quality Audit** **Review of Calibration Certificates** **Control According to Approved Documentations** **Visual Inspection** **Performance Test [Integration Test]** **Verification of The Following Test Item acc. to UR E10** **Functional Testing During Environmental Test Sequences** **Power Supply Voltage Variation Test** **Power Supply Failure Test** **Vibration Test** **Inclination Test** **Shock Test** **Insulation Resistance Test** **Damp Heat Test** **Dry Heat Test** **Low Temperature Test** **High Voltage Test** **High Temperature Test** **Surge Immunity Test** **EMC/EMI Test For Deck and Bridge Zone as follows;** **- Conducted Emission** **- Radiated Emission** **- Electrostatic Discharge Immunity** **- Radiated Electromagnetic Field Immunity** **- Conducted Fast Transients Immunity** **- Conducted Slow Transients Immunity** **- Conducted High Frequency Immunity** **- Conducted Low Frequency Immunity**
Last Inspection Date	**: 24.02.2026**
Test Place	**: Technoparc du Brégadan, 13260 Cassis, FRANCE**

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Others :

Manufacturer	Model	Description
ComAp	ID-DCU-Marine	Auxiliary Diesel Control Unit
ComAp	ID-RPU	Redundant Back-Up Protection Unit
ComAp	ID-COM	CAN interface module+ J1708/J1587 redundancy bus or RS485
ComAp	IGS-PTM	I/O Extention Module (8/8/4/1)
ComAp	InteliVision 5 CAN Backl	Color Display, 5.7" TFT, 320x240 pixels, soft key buttons, CAN
ComAp	InteliVision 12 Touch OE	Color Display, 12.1" LCD,1280x800 pixels, Multi-touch, RS485, CAN, Ethernet and USB; (HW vers.:1.0, SW vers.:1.4.x)
Robert Bosch	EDC17CV41-x.yy-M0	Engine Control Unit
GAC	Axx275 Series	Electrical Actuators
GAC	ESD 5500E Series	Electronic Speed Governors
GAC	MSP 67 xxx Series	Magnetic Speed Sensors
HEINZMANN	HELENOS	Electronic Speed Governors
ABB	S200	Miniature Circuit Breaker
SCHNEIDER	IC60	Miniature Circuit Breaker
PHOENIX	ST4	Fuse +Terminal Block
FINDER	56	Relay
FINDER	40-55	Relay
SCHNEIDER	XB4-XB5	Push Button
OMERIN	VAPREN MAX	Cables Low Voltage
TIANMIN	UHK 30	Level Switch
BEDIA	CLS 55	Level Switch
BARKSDALE	UNS 1000	Level Switch
DANFOSS	MBC 5100	Pressure Switch
DANFOSS	MBC 5180	Pressure Switch Diff
DANFOSS	MBS 2100/3100	Pressure Transmitter
HUBA CONTROL	522-527	Pressure Transmitter
TRAFAG	920, 924, 932	Pressure Switch Diff
DANFOSS	MBC 8100	Thermostat Switch
DANFOSS	MBT 5310	Temperature Transmitter
CMR	MBT 19	Temperature Transmitter
CMR	MD 170 MA	Temperature Transmitter

	Engine Type	Application	Product Configuration	Firmware Version	Software Version
1	4/6W105	GEB	Mechanical	3.4.1.1	1620166 Ver. K/3
2	6W126/6M16	GEB	Mechanical	3.4.1.1	1620166 Ver. M/2
3	6M26.2	GEB	Mechanical	3.4.1.1	1511438Z Ver. C/3
4	12M26.2	GEB	Mechanical	3.4.1.1	1511438Z Ver. D/5
5	6M26.3	GEB	ECU	3.4.1.1	1511529 Ver. A/4
6	12M26.3	GEB	ECU	3.4.1.1	1511529 Ver. B/4

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7	6M26.3	GEB	ECU+SCR	3.4.1.1	1511529 Ver. C/0
8	12M26.3	GEB	ECU+SCR	3.4.1.1	1511529 Ver. D/0
9	12M33.2	GEB	Mechanical	3.4.1.1	1511438Z Ver. E/1
10	6M33.2	GEB	Mechanical	3.4.1.1	1511438Z Ver. F/1
11	6W105	PROPULSION	Mechanical	3.4.1.1	1622128 Ver. H/3
12	6M16	PROPULSION	Mechanical	3.4.1.1	1622128 Ver. F/2
13	6W126	PROPULSION	Mechanical	3.4.1.1	1622128 Ver. G/2
14	6/8M26.2	PROPULSION	Electronical	3.4.1.1	1511436 Ver. C/5
15	6/8M26.2	PROPULSION	Mechanical	3.4.1.1	1511437 Ver. C/6
16	12M26.2	PROPULSION	Electronical	3.4.1.1	1511436 Ver. D/7
17	12M26.2	PROPULSION	Mechanical	3.4.1.1	1511437 Ver. D/7
18	6M26.3	PROPULSION	ECU+SCR	3.4.1.1	1511511 Ver. K/3
19	6M26.3	PROPULSION	ECU+SCR USA	3.4.1.1	1511511 Ver. L/4
20	6M26.3	PROPULSION	ECU	3.4.1.1	1511511 Ver. D/12
21	6M26.3	PROPULSION	ECU USA	3.4.1.1	1511511 Ver. E/12
22	12M26.3	PROPULSION	ECU+SCR	3.4.1.1	1511511 Ver. M/4
23	12M26.3	PROPULSION	ECU+SCR USA	3.4.1.1	1511511 Ver. N/3
24	12M26.3	PROPULSION	ECU	3.4.1.1	1511511 Ver. A/11
25	12M26.3	PROPULSION	ECU USA	3.4.1.1	1511511 Ver. C/11
26	6M33.2	PROPULSION	Mechanical	3.4.1.1	1511437 Ver. F/5
27	12M33.2	PROPULSION	Mechanical	3.4.1.1	1511437 Ver. E/5
28	4/6W105	EMERGENCY	Mechanical	3.4.1.1	1620450 Ver. A/3

Approval Conditions **: - Individual Product Certification is required for BMS MASTER within the scope of Engine Monitoring and Control System.**
- If requirements of enclosure Ingress Protection Levels higher than the approved material, required IP level is to be complied with.
- Any changes to the approved design parameters or consruction incl. software version are to be approved by TL.

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- The requirements of IACS UR-E26 and E27 about Cyber Security are not covered by this Type Approval Certificate.
- The certifications for machines referred to as "Engine Type" in this certificate are not covered by this Type Approval Certificate.

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