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 Certificate No:
 LR2482046TA

 Issue Date:
 04/07/2024

 Expiry Date:
 03/07/2029

 Reference:
 TSO/23-005236

LLOYD'S REGISTER TYPE APPROVAL – DESIGN APPRAISAL DOCUMENT

Issue by: Americas Technical Support Office Issued to: Kobelt Manufacturing Co. Ltd. For: Kobelt Digital Steering System

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System Procedure TA14 Version 04 (September 2020) and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Type Approval Application Checklist	09 October 2023
Production Quality Assessment Report for Manufacturing Plant in Surrey, BC Canada	11 January 2024
SPC-006, Functional Design Specification – Kobelt Steering System, Rev. A	13 October 2023
SOP-26, Control of Programmable Electronic Systems, Rev. 2	17 January 2022
PDS-6300-0100, Datasheet; Digital Steering Controller, Rev. C	October 2023
PDS-6300-0200, Datasheet; Digital Steering Station, Rev. C	January 2024
PDS-6301-0100, Datasheet; Electronic Helm, Rev. C	October 2023
SS0185-BD, Block diagram; Mighty Helmsman Steering System, Rev. A	20 November 2023
6300-0101-ES, NGSS Controller Block Diagram, Rev. C	20 October 2023
6300-0201-ES, NGSS Head Top Board Block Diagram, Rev. B	14 November 2023
6300-0202-ES, NGSS Head Bottom Board Block Diagram, Rev. C	20 October 2023
RPT-001, System and Software test report, Rev. C	27 July 2022
MNL-002 Kobelt Steering System 6300-0100 Controller & 6300-0200 Station Owner's Operation, Installation &	
Maintenance Manual, Rev. B	October 2023
RD-8250-1, TFD Steering Unit, Rev. D	02 February 2021

TEST REPORTS

1E31 REPORTS	
30.00.21599-1, Test Report - LabTest - 30.00.21599-1, Rev. 0	22 March 2023
E10996-2109, E10996-2109_Kobelt_Voyager Steering & Controller System, Rev.1	10 February 2022
30.00.21114-1, Test Report - LabTest - 30.00.21114-1_Rev.0 - Vibration Test Report, Rev.0	29 September 2022
30.00.21010-2, Test Report - LabTest - 30.00.21010-2_Rev.0_Kobelt - IEC, Rev. 0	18 April 2022
E10996-2105, Test Report - QAI - E10996-2105 IP56 Report, Rev. 1	14 March 2022
E10996-2303, E10996-2303_Kobelt_NGSS - Controller and head, Rev. 1	20 October 2023
EMS16-0008, RD-8223-5 Electrical Environment Qual Test Data, Elite ETR 1504028-01	15 March 2016
TC006366, Certificate of Testing of Sinusoidal Vibration, Rev. 2	11 March 2016
TC006364, Certificate of Testing of Damp Heat Cycle, Rev. 2	10 March 2016
TC006368, Certificate of Testing of Dry Heat, Rev.2	15 March 2016
TC006373, Certificate of Testing of Storage Temp – Cold, Rev. 2	24 March 2016
ENB020269P, Cyclic and Continuous Salt Mist Exposures	
TC006391, Certificate of Testing of Settling Dust	06 May 2016
E10996-2401, Kobelt NGSS Controller, Wheel, Head and IO Expander, Rev 1.0	18 March 2024

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E10966-2402, High Voltage Test and Insulation Resistance Test for Lord Helm Wheel and Control Head

13 March 2024 19 April 2024 03 May 2024

25 May 2024

E10996-2403, Vibration and Resonance E10996-2403, Environmental Test Report E10996-2404, QAI Report- IPX6

Yongchang Car

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