

ECE TYPE-APPROVAL CERTIFICATE

Communication concerning the approval extended of an
electrical/electronic sub-assembly with
regard to Regulation No.10.



Approval No: **E24 10R-030610**

Extension No: **02**

Reason for extension:

See page 1 of test report 11-00022-CX-GBM-02 for details.

1. Make (trade name of manufacturer): **VGB
RINGFEDER**
2. Type and general commercial description: **EB 460-3
Indicating kit for couplings**
3. Means of identification of type, if marked on the component: **09-099400**
- 3.1 Location of that marking: **On the housing of the unit**
4. Category of vehicle: **See Appendix**
5. Name and address of manufacturer: **VGB Group Truck Equipment AB,
Herman Kreftings Gata 4,
SE-462 28 Vänersborg**
6. In the case of components and separate technical units,
location and method of affixing of the ECE approval mark: **On the housing of the unit imprinted**
7. Address(es) of assembly plant(s): **SEPAB Fordonsprodukter AB,
Bergkällavägen 31 B,
SE-19279 Sollentuna.**

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8. Additional information (where applicable): *See appendix*
9. Technical service responsible for carrying out the tests: **TÜV SÜD Automotive GmbH,
Westendstraße 199,
D-80686 München,
Germany.**
10. Date of test report: *As before and 11.09.2012*
11. Number of test report: Former: *10-00098-ES-GBM-00
11-00022-ES-GBM-01
11-00022-ES-GBM-02*
New:
12. Remarks (if any): *See Appendix*
13. Place: *Dublin*
14. Date: *19th October, 2012.*
15. Signature: 
16. The index to the information package lodged with the approval authority, which may be obtained on request is attached.



Appendix

To type-approval communication concerning the type approval
of an electrical/electronic sub-assembly under Regulation No.10.

1. Additional information
 - 1.1. Electrical system rated voltage: *24V, battery negative on the body*
 - 1.2. This ESA can be used on any vehicle type with the following restrictions: *24V, battery negative on the body.*
 - 1.2.1 Installation conditions, if any: *See manufacturer's specifications.*
 - 1.3. This ESA can only be used on the following vehicle types: *N/A*
 - 1.3.1 Installation conditions, if any: *N/A*
 - 1.4. The specific test method(s) used and the frequency ranges covered to determine immunity were: *Bulk current injection (20-200MHz)
Free field method (200-2000MHz)*
 - 1.5. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: *TÜV SÜD Automotive GmbH*
2. Remarks: *N/A*

Appendix to type-approval communication concerning the
type approval of a vehicle under Regulation No.10.

1. Additional information
2. Special devices for the purpose of Annex 4 to this Regulation: *N/A*
3. Electrical system rated voltage: *N/A*
4. Type of bodywork: *N/A*
5. List of electronic systems installed in the tested vehicle(s) not limited to the items in the information document: *N/A*
 - 5.1 Vehicle equipped with 24 GHz short-range radar equipment (yes/no): *N/A*
6. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: *N/A*
7. Remarks: *N/A*