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|                        | В                           | sde101   | mhu019<br>mhu019<br>mhu019  |  | EAAD095177  |  | onding ChangeNotice                          |                |               | 4                |                       |
|                        | B<br>A<br>-                 | sde101<br>dki021   | mhu019<br>mhu019<br>mhu019<br>mhu019  | 12.11.2020<br>08.10.2018   | EAAD095177  | Legacy information. See corresp  | oonding ChangeNotice<br>oonding ChangeNotice |                | Activity Code | 4                | 3                     |
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|                       | В                                       | sde10   | mhu019 mhu019 mhu019 mhu019  | 12.11.2020  | EAAD095177                                      | Legacy information. See corresp  | conding ChangeNotice | e              |               | 4                |                       |
|                       | В                                       | sde10<br>dki02  | mhu019 mhu019 mhu019 mhu019 mhu019   | 12.11.2020<br>08.10.2018  | EAAD095177                                      | Legacy information. See corresp  | conding ChangeNotice |                | Activity Code | 4                | -                     |
|                       | B<br>A<br>-<br>Rev.                     | sde10<br>dki02<br>dki02<br>Creator  | mhu019 mhu019 mhu019 mhu019 mhu019 Approver  | 12.11.2020<br>08.10.2018<br>17.07.2018<br>Approval Date   | EAAD095177 EAAD089852 Change ID                 | Legacy information. See corresponding Legacy information. See corresponding Change Synopsis  | conding ChangeNotice | e              | Activity Code | 4 4 -            | -                     |
|                       | B A - Rev.                              | sde10 dki02² dki02² Creator   | 02 mhu019<br>01 mhu019<br>11 mhu019<br>11 mhu019<br>Approver   | 12.11.2020<br>08.10.2018<br>17.07.2018<br>Approval Date   | EAAD095177 EAAD089852 Change ID                 | Legacy information. See corresp<br>Legacy information. See corresp<br>-  | conding ChangeNotice | e              | Activity Code | 4 4 -            | -                     |
|                       | B A - Rev.                              | sde10 dki02² dki02² Creator   | mhu019 mhu019 mhu019 mhu019 mhu019 Approver  | 12.11.2020<br>08.10.2018<br>17.07.2018<br>Approval Date   | EAAD095177 EAAD089852 Change ID                 | Legacy information. See corresponding Legacy information. See corresponding Change Synopsis  | conding ChangeNotice | e              | Activity Code | 4 4 -            | -                     |
| Change History        | B A - Rev.                              | sde10 dki02² dki02² Creator   | mhu019 mhu019 mhu019 mhu019 Approver  Approver  Mur Gas &  | 12.11.2020<br>08.10.2018<br>17.07.2018<br>Approval Date   | EAAD095177 EAAD089852 Change ID                 | Legacy information. See corresponding Legacy information. See corresponding Change Synopsis  | conding ChangeNotice | e              | Activity Code | 4 4 -            | -                     |
| Change History<br>tay | B A - Rev.                              | sde10 dki02' dki02' Creator  Creator  Bil interthur possessic                   | mhu019 mhu019 mhu019 mhu019 mhu019 Approver  Approver  I Of Materia  Gas & Diesel Ltd. on of the docum                     | 12.11.2020 08.10.2018 17.07.2018 Approval Date  Diesel  All rights reserved. Lent the recipient                     | EAAD095177 EAAD089852 Change ID                 | Legacy information. See corresponding Legacy information. See corresponding Change Synopsis  | conding ChangeNotice | e<br>Approved  | Net Weight    | 4<br>4<br>-<br>E | 3<br>-<br>-<br>C      |
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|                            |  | Item ID   |  | Item Name   |   | Dimension   | Standard-ID         | Basic Material |                     | ١                | Ne<br>Weigh |
|----------------------------|--|---|--|---|---|---|---------------------|----------------|---------------------|------------------|-------------|
| 01                         | 1  | PAAD  | 294622   | ENGINE STA  | YS  | Longitudinal Stays  |                     |                |                     |                  | 359         |
| 02                         | 1  | PAAD2   | 004664   | ENGINE STA  | ıYS   | Longitudinal Otays  |                     |                |                     |                  | 0.00        |
|                            | -  | FAADZ   | 294001   |   |   | FS, LEFT  |                     |                |                     |                  | 0.00        |
|                            |  |   |  |   |   |   |                     |                |                     |                  |             |
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|                            |  |   | 5 X52DF  |   |   |   |                     |                |                     |                  |             |
|                            |  | sna102  | 1  |   | CNAA00.2688   | Main Design/Drawing Introduce   | 4                   |                |                     | 4                |             |
|                            |  | sna102<br>sde101  | mhu019   | 11.11.2022  | CNAA002688<br>FAAD095177  | Main Design/Drawing Introduce   |                     | e              |                     | 4 4              |             |
|                            | В  | sde101  | mhu019<br>mhu019   | 11.11.2022  | EAAD095177  | Legacy information. See corres  | oonding ChangeNotic |                |                     | 4                |             |
|                            | B<br>A   | sde101<br>dki021  | mhu019<br>mhu019<br>mhu019   | 11.11.2022<br>12.11.2020<br>08.10.2018  |   |   | oonding ChangeNotic |                |                     |                  |             |
|                            | B<br>A<br>-  | sde101  | mhu019<br>mhu019<br>mhu019<br>mhu019   | 11.11.2022  | EAAD095177  | Legacy information. See corres  | oonding ChangeNotic |                | Activity Code       | 4                |             |
|                            | B<br>A<br>-  | sde101<br>dki021<br>dki021  | mhu019<br>mhu019<br>mhu019<br>mhu019   | 11.11.2022<br>12.11.2020<br>08.10.2018<br>17.07.2018  | EAAD095177<br>EAAD089852  | Legacy information. See correst Legacy information. See correst -   | oonding ChangeNotic | e              | Activity Code       | 4 4 -            |             |
|                            | B A - Rev.   | sde101<br>dki021<br>dki021<br>Creator   | mhu019<br>mhu019<br>mhu019<br>mhu019<br>Approver   | 11.11.2022<br>12.11.2020<br>08.10.2018<br>17.07.2018<br>Approval Date   | EAAD095177 EAAD089852 Change ID                                   | Legacy information. See correst Legacy information. See correst -   | oonding ChangeNotic | e              | Activity Code       | 4 4 -            |             |
|                            | B A - Rev.   | sde101<br>dki021<br>dki021<br>Creator   | mhu019<br>mhu019<br>mhu019<br>mhu019<br>Approver   | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date   | EAAD095177 EAAD089852 Change ID                                   | Legacy information. See corres Legacy information. See corres  Change Synopsis                                  | oonding ChangeNotic | e              | Activity Code       | 4 4 -            |             |
|                            | B A - Rev.   | sde101 dki021 dki021 Creator  | mhu019 mhu019 mhu019 mhu019 Approver   | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date  Diesel   | EAAD095177 EAAD089852 Change ID                                   | Legacy information. See corres Legacy information. See corres  Change Synopsis                                  | oonding ChangeNotic | e              | Activity Code       | 4 4 -            |             |
| Olialige mistory           | B A - Rev. Wirr  | sde101 dki021 dki021 Creator  Bill Caterthur Ga   | mhu019 mhu019 mhu019 mhu019 Approver  Approver  Of Materia s & Diesel Ltd  | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date  Diesel  al . All rights reserved   | EAAD095177 EAAD089852 Change ID ENGIN Dimension                   | Legacy information. See corres Legacy information. See corres Change Synopsis                                   | oonding ChangeNotic | e              | -                   | 4<br>-<br>E      | -           |
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| ta<br>cogi<br>ny p<br>nstr | B A - Rev.  Wir  gght Win sking p nizes an art of ti uction, f | sde101 dki021 dki021 Creator  Bill ( sterthur Ga ossession d honours i his docume abrication, i | mhu019 mhu019 mhu019 mhu019 Approver  Approver  Fig. 1. Continue of the document of the docume | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date  Diesel  al  All rights reserved ment the recipien                        | EAAD095177 EAAD089852 Change ID ENGIN Dimension Units Main Design | Legacy information. See corres Legacy information. See corres Change Synopsis  TESTAYS  [m] [kg] Basic Material | conding ChangeNotic | Approved XXXXX | Net Weight Standard | 4 4 - E          | 3559        |

| NO                   | QTY   | ' Item ID  |  | Item Name   |   |  | Dimension   | Standard-ID               | Basic Material |                           | ١                | Ne<br>Weigh |
|----------------------|---|--|--|---|---|--|---|---------------------------|----------------|---------------------------|------------------|-------------|
| 001                  | 1   | PAAD2  | 294622   | ENGINE S  | TAYS  |  | Longitudinal Stays  |                           |                |                           |                  | 359         |
| 002                  | 1   | PAAD2  | 01618  | ENGINE S  | TAYS  |  |   |                           |                |                           |                  | 577         |
|                      | l l   | I AADZ   | .04040   |   |   |  | BS, STD   |                           |                |                           |                  | 311         |
|                      |   |  |  |   |   |  |   |                           |                |                           |                  |             |
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| Prod.                |   |  | 5 X52DF  | =   |   |  |   |                           |                |                           |                  |             |
| Prod.                | С   | sna102   | 5 X52DF  | <del>-</del><br>11.11.2022  | . CNAA002688  | Main Design/D  | rawing Introduced   | d                         |                |                           | 4                | 3           |
|                      |   | sna102<br>sde101   |  | 11.11.2022  |   | ,  | •   | d<br>ponding ChangeNotice | e              |                           | 4 4              |             |
|                      |   |  | <b>mhu019</b> mhu019   | 11.11.2022  | EAAD095177  | Legacy informa   | tion. See corresp   |                           |                |                           |                  | 3           |
|                      | В   | sde101   | <b>mhu019</b> mhu019   | 11.11.2022<br>12.11.2020<br>08.10.2018  | EAAD095177  | Legacy informa   | tion. See corresp   | onding ChangeNotic        |                |                           | 4                | 3           |
|                      | В<br>А<br>-   | sde101<br>dki021   | mhu019<br>mhu019<br>mhu019   | 11.11.2022<br>12.11.2020<br>08.10.2018  | EAAD095177  | Legacy informa   | tion. See corresp   | oonding ChangeNotice      |                | Activity Code             | 4                | -           |
|                      | B<br>A<br>-<br>Rev.                                       | sde101<br>dki021<br>dki021<br>Creator  | mhu019<br>mhu019<br>mhu019<br>mhu019<br>Approver   | 11.11.2022<br>12.11.2020<br>08.10.2018<br>17.07.2018<br>Approval Date   | EAAD095177 EAAD089852 Change ID   | Legacy informa Legacy informa - Change Synopsis                            | ation. See corresp  | oonding ChangeNotice      | e              | Activity Code             | 4 4 -            | -           |
|                      | B<br>A<br>-<br>Rev.                                       | sde101<br>dki021<br>dki021<br>Creator  | mhu019<br>mhu019<br>mhu019<br>mhu019<br>Approver   | 11.11.2022<br>12.11.2020<br>08.10.2018<br>17.07.2018<br>Approval Date   | EAAD095177 EAAD089852 Change ID   | Legacy informa Legacy informa  | ation. See corresp  | oonding ChangeNotice      | e              | Activity Code             | 4 4 -            | -           |
|                      | B A - Rev.  | sde101<br>dki021<br>dki021<br>Creator  | mhu019<br>mhu019<br>mhu019<br>mhu019<br>Approver   | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date   | EAAD095177 EAAD089852 Change ID   | Legacy informa Legacy informa - Change Synopsis                            | ation. See corresp  | oonding ChangeNotice      | e              | Activity Code             | 4 4 -            | -           |
|                      | B A - Rev.  | sde101 dki021 dki021 Creator   | mhu019 mhu019 mhu019 mhu019 Approver   | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date   | EAAD095177 EAAD089852 Change ID ENGIN   | Legacy informa Legacy informa - Change Synopsis                            | ation. See corresp  | oonding ChangeNotice      | e              | Activity Code             | 4 4 -            | -           |
| Change History Prod. | B A - Rev.  | sde101 dki021 dki021 Creator  William Bill Conterthur Ga:  | mhu019 mhu019 mhu019 mhu019 Approver  Approver  Of Materia s & Diesel Ltd  | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date  Diesel  al   | EAAD095177 EAAD089852 Change ID  ENGIN  Dimension   | Legacy informa Legacy informa - Change Synopsis                            | ation. See corresponding. See corresponding.                    | oonding ChangeNotice      | e              | Activity Code  Net Weight | 4<br>-<br>E      | 33 3        |
| Change History       | B A - Rev.  | sde101 dki021 dki021 Creator  Bill Conterthur Garossession and honours to                              | mhu019 mhu019 mhu019 mhu019 Approver  Approver  Of Materia S & Diesel Ltd of the docu hese rights. N   | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date  Diesel  I. All rights resenment the recipleither the whole | EAAD095177 EAAD089852 Change ID ENGIN Dimension Ved. ient nor Main Design   | Legacy informa Legacy informa - Change Synopsis                            | ation. See corresponding. See corresponding. See corresponding. | oonding ChangeNotice      | e              | Net Weight                | 4<br>4<br>-<br>E |             |
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| SEQ<br>NO              | QTY                 | Item ID                     |                                 | Item Name   |                          | Dimensio  | Standard-ID          | Basic Material |               | V  | Net<br>/eight |
|------------------------|---------------------|-----------------------------|---------------------------------|---|--------------------------|---|----------------------|----------------|---------------|----|---------------|
| 001                    | 1                   | PAAD2                       | 94622                           | ENGINE STA  | YS                       | Longitudinal Stay   | s                    |                |               | ,  | 3590          |
| 002                    | 1                   | PAAD2                       | 94628                           | ENGINE STA  | YS                       |   |                      |                |               |    | 0.001         |
| 002                    | '                   | I AADZ                      | .04020                          |   |                          | ES, STI   | D                    |                |               |    | 7.001         |
|                        |                     |                             |                                 |   |                          |   |                      |                |               |    |               |
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| -j                     |                     |                             | 5 X52DF                         | :   |                          |   |                      |                |               |    |               |
| Prod.                  |                     | 400                         | T                               |   | CNAA002700               | M · D · /D · I · I  |                      |                |               | ,  |               |
| /                      |                     | sna102<br>sde101            | mhu019                          | 11.11.2022<br>12.11.2020  | CNAA002688<br>EAAD095177 | Main Design/Drawing Introduc  |                      | ^              |               | 4  | 3             |
| Change History         | -                   | dki021                      |                                 | 08.10.2018  | EAAD095177               | Legacy information. See correct Legacy information. See correct Legacy information. |                      |                |               | 4  | ა<br>-        |
| Chang                  |                     | dki021                      |                                 | 17.07.2018  | LAAD003032               | -   | Sponding Changertone |                |               | -  | _             |
|                        |                     | Creator                     |                                 | Approval Date   | Change ID                | Change Synopsis   |                      | Approved       | Activity Code | E  | С             |
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|                        | V                   | M                           | VŒ                              |   | ENGI                     | NE STAYS  |                      |                |               |    |               |
|                        |                     |                             | r Gas &                         |   |                          |   |                      |                |               |    |               |
|                        |                     | Rill C                      | of Materia                      |   | Dimension                |   |                      |                |               |    |               |
| opyr                   | ight Win            | terthur Gas                 | & Diesel Ltd                    | . All rights reserved   | I. Units                 | [m] [kg] Basic Material   |                      |                | Net Weight    | 3  |               |
|                        |                     |                             |                                 | ment the recipien   |                          |   |                      |                | -             |    | 590           |
| ecogi                  | nizes an            | d honours t<br>his docume   | nese rights. No<br>nt may he us | either the whole no<br>sed in any way fo  | Main Design              | Yes Design Group  | 9715 Q-Code          | XXXXX          | Standard      | W  | 590<br>DS     |
| ecogi<br>ny p<br>onstr | art of thuction, fa | his docume<br>abrication, r | nt may be us<br>narketing or an | either the whole no<br>sed in any way fo<br>ny other purpose no<br>o third parties withou | or Oty                   | Yes Design Group  Engine A4 Item ID   | 9715 Q-Code PAAD30   |                |               | 01 | D.            |

| 001  | QTY   | Item ID  |  | Item Name  |   | Dime   | ension Standard-ID       | Basic Material |                           | ١                | Net<br>Weight    |
|--|---|--|--|--|---|--|--------------------------|----------------|---------------------------|------------------|------------------|
|  | 1   | PAAD2  | 294622   | ENGINE STA   | YS  | Longitudinal S   | Stave                    |                |                           |                  | 3590             |
| 002  | 1   | PAAD2  | 994642   | ENGINE STA   | YS  | -  |                          |                |                           |                  | 0.001            |
| 002  | '   | 177702   | .01012   |  |   | FS,  | STD                      |                |                           |                  | 0.001            |
|  |   |  |  |  |   |  |                          |                |                           |                  |                  |
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| od.  |   |  | 5 X52DF  |  |   |  |                          |                |                           |                  |                  |
| Prod.  |   | 202102   | 1  | 11 11 2022   | CNAA002400  | Main Dogian/Drowing Intro  | duood                    |                |                           | 4                | 2                |
|  |   | sna102   | mhu019   | 11.11.2022   | CNAA002688  | Main Design/Drawing Introd   |                          | ρ              |                           | 4                | 3                |
|  | В   | sde101   | <b>mhu019</b> mhu019   | 12.11.2020   | EAAD095177  | Legacy information. See co   | orresponding ChangeNotic |                |                           | 4                | 3 3              |
| Change History Prod.   | B :   | sde101<br>dki021   | mhu019<br>mhu019<br>mhu019   | 12.11.2020<br>08.10.2018   |   |  | orresponding ChangeNotic |                |                           |                  | 3                |
|  | B :   | sde101   | mhu019<br>mhu019<br>mhu019<br>mhu019   | 12.11.2020   | EAAD095177  | Legacy information. See co   | orresponding ChangeNotic |                | Activity Code             | 4                | 3                |
|  | B a A d - Rev.                                      | sde101<br>dki021<br>dki021<br>Creator                                    | mhu019<br>mhu019<br>mhu019<br>mhu019<br>Approver   | 12.11.2020<br>08.10.2018<br>17.07.2018<br>Approval Date                      | EAAD095177 EAAD089852 Change ID                                   | Legacy information. See co<br>Legacy information. See co<br>-<br>Change Synopsis   | orresponding ChangeNotic | e              | Activity Code             | 4 4 -            | 3 -              |
|  | B a A d - Rev.                                      | sde101<br>dki021<br>dki021<br>Creator                                    | mhu019<br>mhu019<br>mhu019<br>mhu019<br>Approver   | 12.11.2020<br>08.10.2018<br>17.07.2018<br>Approval Date                      | EAAD095177 EAAD089852 Change ID                                   | Legacy information. See co   | orresponding ChangeNotic | e              | Activity Code             | 4 4 -            | 3 -              |
|  | B A A Rev.  | sde101<br>dki021<br>dki021<br>Creator                                    | mhu019<br>mhu019<br>mhu019<br>mhu019   | 12.11.2020 08.10.2018 17.07.2018 Approval Date                               | EAAD095177 EAAD089852 Change ID                                   | Legacy information. See co<br>Legacy information. See co<br>-<br>Change Synopsis   | orresponding ChangeNotic | e              | Activity Code             | 4 4 -            | 3 -              |
|  | B A A Rev.  | sde101 dki021 dki021 Creator   | mhu019 mhu019 mhu019 mhu019 Approver   | 12.11.2020 08.10.2018 17.07.2018 Approval Date Diesel                        | EAAD095177 EAAD089852 Change ID                                   | Legacy information. See co<br>Legacy information. See co<br>-<br>Change Synopsis   | orresponding ChangeNotic | e              | Activity Code             | 4 4 -            | 3 -              |
| Change History   | B : A   Rev.  | sde101 dki021 dki021 Creator  Bill Cterthur Gas                          | mhu019 mhu019 mhu019 mhu019 Approver  Approver  Of Materia & Diesel Ltd.   | 12.11.2020 08.10.2018 17.07.2018 Approval Date  Diesel  All rights reserved. | EAAD095177 EAAD089852 Change ID ENGIN Dimension                   | Legacy information. See co<br>Legacy information. See co<br>-<br>Change Synopsis   | orresponding ChangeNotic | e              | Activity Code  Net Weight | 4<br>-<br>E      | 3 -              |
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|  | QTY  | / Item ID   |   | Item Name  |   | Di   | mension | Standard-ID         | Basic Material |                           | V           | Ne<br>Neigh |
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| 01   | 1  | PAAD  | 294782  | ENGINE ST  | AYS   |  |         |                     |                |                           |             | 577         |
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| .d.  |  |   | 6,7,8 X52DF   |  |   |  |         |                     |                |                           |             |             |
| Ploa.  |  |   | 6,7,8 X52DF   |  | CNAA002/00  |  |         |                     |                |                           |             |             |
| Prog.  | C  | sna102  | mhu019  | 11.11.2022   | CNAA002688  | Main Design/Drawing Intr   |         |                     |                |                           | 4           |             |
|  | В  | sde101  | <b>mhu019</b> mhu019  | 11.11.2022   | EAAD095177  | Legacy information. See  | corresp | onding ChangeNotic  |                |                           | 4           |             |
|  |  | sde101<br>dki021  | mhu019<br>mhu019<br>mhu019  | 11.11.2022<br>12.11.2020<br>08.10.2018   |   |  | corresp | onding ChangeNotic  |                |                           |             | 3           |
| Change History Prod.   | В  | sde101<br>dki021<br>dki021  | mhu019<br>mhu019<br>mhu019<br>mhu019  | 11.11.2022<br>12.11.2020<br>08.10.2018<br>17.07.2018   | EAAD095177<br>EAAD089852  | Legacy information. See (Legacy information. See (Legacy information)  | corresp | onding ChangeNotic  | ee             |                           | 4 4 -       |             |
|  | В  | sde101<br>dki021  | mhu019<br>mhu019<br>mhu019<br>mhu019  | 11.11.2022<br>12.11.2020<br>08.10.2018   | EAAD095177  | Legacy information. See  | corresp | onding ChangeNotic  |                | Activity Code             | 4           | 33          |
|  | B<br>A<br>-<br>Rev.  | sde101<br>dki021<br>dki021<br>Creator   | mhu019<br>mhu019<br>mhu019<br>mhu019<br>Approver  | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date  | EAAD095177 EAAD089852 Change ID   | Legacy information. See (Legacy information. See (Legacy information). See (Legacy information).   | corresp | onding ChangeNotic  | ee             | Activity Code             | 4 4 -       | -           |
|  | B A - Rev.   | sde101<br>dki021<br>dki021<br>Creator   | mhu019 mhu019 mhu019 mhu019 Approver  | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date  | EAAD095177 EAAD089852 Change ID   | Legacy information. See (Legacy information. See (Legacy information)  | corresp | onding ChangeNotic  | ee             | Activity Code             | 4 4 -       |             |
|  | B A - Rev.   | sde101<br>dki021<br>dki021<br>Creator   | mhu019<br>mhu019<br>mhu019<br>mhu019<br>Approver  | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date  | EAAD095177 EAAD089852 Change ID   | Legacy information. See (Legacy information. See (Legacy information). See (Legacy information).   | corresp | onding ChangeNotic  | ee             | Activity Code             | 4 4 -       |             |
|  | B A - Rev.   | sde101 dki021 dki021 Creator  | mhu019 mhu019 mhu019 mhu019 Approver  | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date  Diesel  | EAAD095177 EAAD089852 Change ID ENGIN   | Legacy information. See (Legacy information. See (Legacy information). See (Legacy information).   | corresp | onding ChangeNotic  | ee             | Activity Code             | 4 4 -       |             |
| Change History   | B A - Rev.   | sde101 dki021 dki021 Creator  Bill Conterthur Ga  | mhu019 mhu019 mhu019 mhu019 Approver  Approver  Of Materia s & Diesel Ltd   | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date  Diesel  All rights reserve  | EAAD095177 EAAD089852 Change ID ENGIN Dimension d. Units  | Legacy information. See (Legacy information. See (Legacy information). See (Legacy information).   | corresp | onding ChangeNotic  | ee             | Activity Code  Net Weight | 4<br>-<br>E |             |
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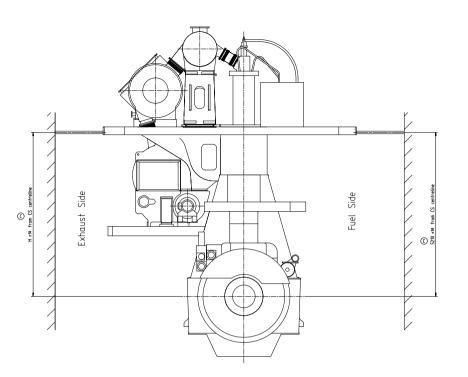
|                         | QTY   | / Item ID   |  | Item Name   |  |   | Dimension  | Standard-ID         | Basic Material |                           | V                | Ne<br>Neigh |
|-------------------------|---|---|--|---|--|---|--|---------------------|----------------|---------------------------|------------------|-------------|
| 01                      | 1   | PAAD  | 294763   | ENGINE ST   | AYS  |   |  |                     |                |                           |                  | 0.00        |
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| -10d.                   |   |   | 6,7,8 X52DF  |   |  |   |  |                     |                |                           |                  |             |
| Prod.                   | С   | sna102  | 1 1  |   | CNAA002688   | Main Design/Dray  | wina Introduce   | 1                   |                |                           | 4                | -           |
|                         | C   | sna102<br>sde101  | mhu019   | 11.11.2022  | CNAA002688<br>EAAD095177   | Main Design/Drav  |  |                     | e              |                           | 4 4              |             |
|                         | В   | sde101  | mhu019<br>mhu019   | 11.11.2022  | EAAD095177   | Legacy information  | on. See corresp  | oonding ChangeNotic |                |                           | 4                | 3           |
|                         |   | sde101<br>dki021  | mhu019<br>mhu019<br>mhu019   | 11.11.2022<br>12.11.2020<br>08.10.2018  |  | Legacy information  | on. See corresp  |                     |                |                           | 4                |             |
|                         | B<br>A<br>-   | sde101<br>dki021<br>dki021  | mhu019<br>mhu019<br>mhu019<br>mhu019   | 11.11.2022<br>12.11.2020<br>08.10.2018<br>17.07.2018  | EAAD095177<br>EAAD089852   | Legacy information  | on. See corresp  | conding ChangeNotic | e              | Activity Code             | 4 4 -            |             |
|                         | В   | sde101<br>dki021  | mhu019<br>mhu019<br>mhu019<br>mhu019   | 11.11.2022<br>12.11.2020<br>08.10.2018  | EAAD095177   | Legacy information  | on. See corresp  | conding ChangeNotic |                | Activity Code             | 4                | - (         |
| Change History Prod.    | B<br>A<br>-<br>Rev.   | sde101<br>dki021<br>dki021<br>Creator   | mhu019<br>mhu019<br>mhu019<br>mhu019<br>Approver   | 11.11.2022<br>12.11.2020<br>08.10.2018<br>17.07.2018<br>Approval Date   | EAAD095177 EAAD089852 Change ID  | Legacy information Legacy information - Change Synopsis   | on. See correspon. See corresp   | conding ChangeNotic | e              | Activity Code             | 4 4 -            |             |
|                         | B A - Rev.  | sde101<br>dki021<br>dki021<br>Creator   | mhu019 mhu019 mhu019 mhu019 Approver   | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date   | EAAD095177 EAAD089852 Change ID  | Legacy information  | on. See correspon. See corresp   | conding ChangeNotic | e              | Activity Code             | 4 4 -            |             |
|                         | B A - Rev.  | sde101<br>dki021<br>dki021<br>Creator   | mhu019<br>mhu019<br>mhu019<br>mhu019<br>Approver   | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date   | EAAD095177 EAAD089852 Change ID  | Legacy information Legacy information - Change Synopsis   | on. See correspon. See corresp   | conding ChangeNotic | e              | Activity Code             | 4 4 -            |             |
| Change History          | B A - Rev.  | sde101 dki021 dki021 Creator  | mhu019 mhu019 mhu019 mhu019 Approver  Approver   | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date  Diesel   | EAAD095177 EAAD089852 Change ID ENGIN                                    | Legacy information Legacy information - Change Synopsis   | on. See correspon. See corresp   | conding ChangeNotic | e              | Activity Code             | 4 4 -            |             |
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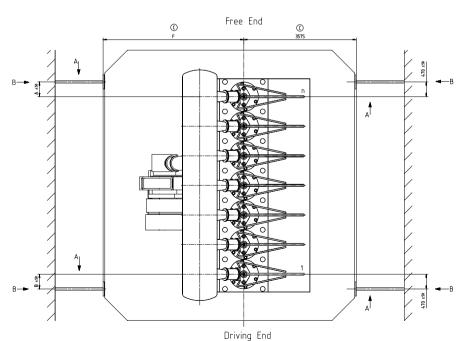
|                      | QTY                                | / Item ID  |   | Item Name  |   |   | Dimension                         | Standard-ID         | Basic Material |               | V                | Ne<br>Weigh |
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| 01                   | 1                                  | PAAD   | 294661  | ENGINE STA   | AYS   |   | FC   FFT                          |                     |                |               |                  | 0.00        |
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| lod.                 |                                    |  | 6,7,8 X52DF   |  |   |   |                                   |                     |                |               |                  |             |
| 710d.                | С                                  | sna102   | 6,7,8 X52DF   | 11.11.2022   | CNAA002688  | Main Design/Drav  | wing Introduce                    | d                   |                |               | 4                |             |
|                      |                                    |  | mhu019  |  | CNAA002688<br>EAAD095177  | Main Design/Drav  |                                   |                     | e              |               | 4 4              |             |
|                      | В                                  | sna102<br>sde101<br>dki021   | mhu019<br>mhu019  | 11.11.2022   |   | Legacy information  | on. See corresp                   | oonding ChangeNotic |                |               |                  | ;           |
|                      |                                    | sde101<br>dki021   | mhu019<br>mhu019<br>mhu019  | 11.11.2022<br>12.11.2020<br>08.10.2018   | EAAD095177  | Legacy information  | on. See corresp                   |                     |                |               | 4                |             |
|                      | В                                  | sde101   | mhu019<br>mhu019<br>mhu019<br>mhu019  | 11.11.2022   | EAAD095177  | Legacy information  | on. See corresp                   | conding ChangeNotic | e              | Activity Code | 4                |             |
|                      | В<br>А<br>-                        | sde101<br>dki021<br>dki021   | mhu019<br>mhu019<br>mhu019<br>mhu019  | 11.11.2022<br>12.11.2020<br>08.10.2018<br>17.07.2018   | EAAD095177<br>EAAD089852  | Legacy information  | on. See corresp                   | conding ChangeNotic |                | Activity Code | 4 4 -            |             |
| Change History Prod. | B<br>A<br>-<br>Rev.                | sde101<br>dki021<br>dki021<br>Creator  | mhu019<br>mhu019<br>mhu019<br>mhu019<br>Approver  | 11.11.2022<br>12.11.2020<br>08.10.2018<br>17.07.2018<br>Approval Date                                    | EAAD095177 EAAD089852 Change ID                                   | Legacy information  | on. See correspon. See corresp    | conding ChangeNotic | e              | Activity Code | 4 4 -            | 3           |
|                      | B A - Rev.                         | sde101<br>dki021<br>dki021<br>Creator  | mhu019 mhu019 mhu019 mhu019 Approver  | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date  | EAAD095177 EAAD089852 Change ID                                   | Legacy information Legacy information - Change Synopsis   | on. See correspon. See corresp    | conding ChangeNotic | e              | Activity Code | 4 4 -            |             |
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|-----------------------|-------------|---|---|---|-----------------------|--|--------------------------------|--|------------------|------------------|--------------|----------------|---------------------|------------------|-----------|
| 01                    | 1           | PAAD2   | 294648  | ENGINE  | STAY                  | S  |                                |  | BS, ST           |                  |              |                |                     |                  | 577       |
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|                       |             |   | 6,7,8 X52DF   | =   |                       |  |                                |  |                  |                  |              |                |                     |                  |           |
| DOL                   |             | sna102  | 1   |   | 22                    | CNA4002688   | Main                           | Design/D   | rawing Introduc  | ed               |              |                |                     | 4                |           |
|                       |             | sna102  | mhu019  | 11.11.202   |                       | CNAA002688   |                                |  | rawing Introduc  |                  | Notice       |                |                     | 4 4              |           |
|                       | В           | sde101  | mhu019<br>mhu019  | 11.11.202   | 20                    | EAAD09517  | 7 Lega                         | cy informa   | ation. See corre | sponding ChangeN |              |                |                     | 4                | ;         |
|                       | B<br>A      | sde101<br>dki021  | mhu019<br>mhu019<br>mhu019  | 11.11.202<br>12.11.202<br>08.10.201   | 20<br>18              |  | 7 Lega                         | cy informa   | ation. See corre |                  |              |                |                     |                  | ;         |
|                       | В<br>А<br>- | sde101<br>dki021<br>dki021  | mhu019<br>mhu019<br>mhu019<br>mhu019  | 11.11.202<br>12.11.202<br>08.10.201<br>17.07.201  | 20<br>18<br>18        | EAAD09517<br>EAAD08985                             | 7 Lega<br>2 Lega<br>-          | cy informa   | ation. See corre | sponding ChangeN | Notice       | proved         | Activity Code       | 4 4 -            | ,         |
|                       | В<br>А<br>- | sde101<br>dki021  | mhu019<br>mhu019<br>mhu019  | 11.11.202<br>12.11.202<br>08.10.201   | 20<br>18<br>18        | EAAD09517  | 7 Lega<br>2 Lega<br>-          | cy informa   | ation. See corre | sponding ChangeN | Notice       | proved         | Activity Code       | 4                |           |
|                       | B A - Rev.  | sde101<br>dki021<br>dki021<br>Creator   | mhu019<br>mhu019<br>mhu019<br>mhu019<br>Approver                                      | 11.11.202<br>12.11.202<br>08.10.201<br>17.07.201<br>Approval Dat  | 20<br>18<br>18        | EAAD09517<br>EAAD08985                             | 7 Lega<br>2 Lega<br>-<br>Chang | cy informa   | ation. See corre | sponding ChangeN | Notice       | oproved        | Activity Code       | 4 4 -            | ,         |
|                       | B A - Rev.  | sde101<br>dki021<br>dki021<br>Creator   | mhu019<br>mhu019<br>mhu019<br>mhu019  | 11.11.202<br>12.11.202<br>08.10.201<br>17.07.201<br>Approval Dat  | 20<br>18<br>18        | EAAD09517<br>EAAD08985<br>Change ID                | 7 Lega<br>2 Lega<br>-<br>Chang | cy informa   | ation. See corre | sponding ChangeN | Notice       | oproved        | Activity Code       | 4 4 -            | ,         |
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|                              | QTY  | Y Item ID  |   | Item Name  |  |   | Dimension  | Standard-ID         | Basic Material   |                                    | V                | Ne<br>Weigh |
|------------------------------|--|--|---|--|--|---|--|---------------------|------------------|------------------------------------|------------------|-------------|
| 01                           | 1  | PAAD   | 294628  | ENGINE ST  | AYS  |   |  |                     |                  |                                    |                  | 0.00        |
|                              |  |  |   |  |  |   | ES, STD  |                     |                  |                                    |                  |             |
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| 5                            |  |  | 6.7.8 X52DF   |  |  |   |  |                     |                  |                                    |                  |             |
| -100.                        |  |  | 6,7,8 X52DF   |  |  |   |  |                     |                  |                                    |                  |             |
| _100.                        | C  | sna102   | mhu019  | 11.11.2022   | CNAA002688   | Main Design/Dr  | -  |                     |                  |                                    | 4                |             |
|                              | В  | sde101   | mhu019<br>mhu019  | 11.11.2022   | EAAD095177   | Legacy informa  | tion. See corresp  | oonding ChangeNotic |                  |                                    | 4 4              | _           |
|                              |  | -  | mhu019<br>mhu019  | 11.11.2022   |  | Legacy informa  | tion. See corresp  |                     |                  |                                    |                  |             |
|                              | В  | sde101   | mhu019<br>mhu019<br>mhu019  | 11.11.2022   | EAAD095177   | Legacy informa  | tion. See corresp  | conding ChangeNotic | e                |                                    | 4                |             |
|                              | В  | sde101<br>dki021   | mhu019<br>mhu019<br>mhu019<br>mhu019  | 11.11.2022<br>12.11.2020<br>08.10.2018   | EAAD095177   | Legacy informa  | tion. See corresp  | conding ChangeNotic |                  | Activity Code                      | 4                | ;           |
|                              | B A - Rev.   | sde101<br>dki021<br>dki021<br>Creator  | mhu019<br>mhu019<br>mhu019<br>mhu019<br>Approver  | 11.11.2022<br>12.11.2020<br>08.10.2018<br>17.07.2018<br>Approval Date  | EAAD095177 EAAD089852 Change ID  | Legacy informa Legacy informa - Change Synopsis                             | tion. See corresp  | conding ChangeNotic | e                | Activity Code                      | 4 4 -            |             |
|                              | B A - Rev.   | sde101<br>dki021<br>dki021<br>Creator  | mhu019<br>mhu019<br>mhu019<br>mhu019  | 11.11.2022<br>12.11.2020<br>08.10.2018<br>17.07.2018<br>Approval Date  | EAAD095177 EAAD089852 Change ID  | Legacy informa Legacy informa   | tion. See corresp  | conding ChangeNotic | e                | Activity Code                      | 4 4 -            |             |
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|                      | QTY                 | Item ID  |  | Item Name   |   |   | Dimension  | Standard-ID         | Basic Material |                           | V                | Ne<br>Neigh                           |
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| 01                   | 1                   | PAAD   | 294642   | ENGINE S  | TAYS  |   |  |                     |                |                           |                  | 0.00                                  |
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| rod.                 |                     |  | 6,7,8 X52DF  |   |   |   |  |                     |                |                           |                  |                                       |
| Prod.                | С                   | sna102   |  |   | CNAA002688  | Main Design/Dr                                    | awing Introduce  | 3                   |                |                           | 4                |                                       |
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|                      | В                   | sde101   | mhu019<br>mhu019   | 11.11.2022  | EAAD095177  | Legacy informa                                    | tion. See corresp  | onding ChangeNotic  |                |                           | 4                | 3                                     |
| Change History Prod. |                     | sde101<br>dki021   | mhu019<br>mhu019<br>mhu019   | 11.11.2022<br>12.11.2020<br>08.10.2018                                | EAAD095177<br>EAAD089852  | Legacy informa                                    | tion. See corresp  |                     |                |                           |                  | 3                                     |
| Change History       | В<br>А<br>-         | sde101<br>dki021<br>dki021   | mhu019<br>mhu019<br>mhu019<br>mhu019   | 11.11.2022<br>12.11.2020<br>08.10.2018<br>17.07.2018                  | EAAD095177<br>EAAD089852  | Legacy informa Legacy informa                     | tion. See corresp  | oonding ChangeNotic | e              | Activity Code             | 4 4 -            |                                       |
| Change History       | В<br>А<br>-         | sde101<br>dki021   | mhu019<br>mhu019<br>mhu019   | 11.11.2022<br>12.11.2020<br>08.10.2018                                | EAAD095177<br>EAAD089852  | Legacy informa                                    | tion. See corresp  | oonding ChangeNotic |                | Activity Code             | 4                |                                       |
| Change History       | B<br>A<br>-<br>Rev. | sde101<br>dki021<br>dki021<br>Creator  | mhu019<br>mhu019<br>mhu019<br>mhu019<br>Approver   | 11.11.2022<br>12.11.2020<br>08.10.2018<br>17.07.2018<br>Approval Date | EAAD095177 EAAD089852 Change ID   | Legacy informa Legacy informa - Change Synopsis   | tion. See corresp  | oonding ChangeNotic | e              | Activity Code             | 4 4 -            |                                       |
| Change History       | B A - Rev.          | sde101<br>dki021<br>dki021<br>Creator  | mhu019<br>mhu019<br>mhu019<br>mhu019<br>Approver   | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date             | EAAD095177 EAAD089852 Change ID   | Legacy informa Legacy informa                     | tion. See corresp  | oonding ChangeNotic | e              | Activity Code             | 4 4 -            |                                       |
| Change History       | B A - Rev.          | sde101<br>dki021<br>dki021<br>Creator  | mhu019<br>mhu019<br>mhu019<br>mhu019<br>Approver   | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date             | EAAD095177 EAAD089852 Change ID   | Legacy informa Legacy informa - Change Synopsis   | tion. See corresp  | oonding ChangeNotic | e              | Activity Code             | 4 4 -            |                                       |
| Change History       | B A - Rev.          | sde101 dki021 dki021 Creator   | mhu019 mhu019 mhu019 mhu019 Approver   | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date  Diesel     | EAAD095177 EAAD089852 Change ID ENGIN Dimension                                   | Legacy informa Legacy informa - Change Synopsis   | tion. See corresp  | oonding ChangeNotic | e              | Activity Code             | 4 4 -            |                                       |
| Change History       | B A - Rev. Wish     | sde101 dki021 dki021 Creator  Bill Conterthur Galoossession                            | mhu019 mhu019 mhu019 mhu019 Approver  Approver  Of Materia s & Diesel Ltd of the docu  | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date  Diesel  al | EAAD095177 EAAD089852 Change ID ENGIN Dimension red. Units                        | Legacy informa Legacy informa - Change Synopsis   | tion. See corresp  | oonding ChangeNotic | e              | Activity Code  Net Weight | 4<br>-<br>E      |                                       |
| Change History       | Rev.                | sde101 dki021 dki021 Creator  Bill (  nterthur Ga  possession nd honours this document | mhu019 mhu019 mhu019 mhu019 Approver  Approver  Of Materia & Diesel Ltd of the docuithese rights. Neat may be usent may be | 11.11.2022 12.11.2020 08.10.2018 17.07.2018 Approval Date  Diesel  al | EAAD095177 EAAD089852 Change ID ENGIN Dimension Ved. in Units nor for Main Design | Legacy informal Legacy informal - Change Synopsis | tion. See corresponding to the | oonding ChangeNotic | e<br>Approved  |                           | 4<br>4<br>-<br>E | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 |





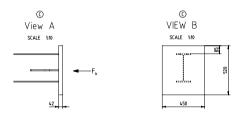
Remark:

The Engine outline view is drawn for a 7 cylinder with 1 TC. However, the specification of the stays attachment points in relation to the foremost/aft cylinder is vaild for all cylinder numbers and TC configulation. TC specific stay positions are provided in the table on right hand side.

© Position of stay attachment points on platform side

| No. of<br>Cyl. | Turbocharger<br>type | Α          | В     | F     | Н    |  |
|----------------|----------------------|------------|-------|-------|------|--|
|                | 1 x A170-L           |            |       |       |      |  |
| 5              | 1 x A265-L           | ON REQUEST |       |       |      |  |
|                | 1 x MET66MB          |            |       |       |      |  |
|                | 1 x A175-L           |            |       |       |      |  |
| 6              | 1 x A265-L           | ١.         | ON DE | NUEST |      |  |
| U              | 1 x A270-L           | ON REQUEST |       |       |      |  |
|                | 1 x MET66MB          |            |       |       |      |  |
|                | 1 x A175-L           | ON REQUEST |       |       |      |  |
|                | 1 x A270-L           | 470        | 470   | 4475  | 5210 |  |
|                | 1 x MET60MB          | 470        | 470   | 4475  | 5210 |  |
| 7              | 1 x MET66MB          | 470        | 470   | 4475  | 5210 |  |
|                | 1 x MET71MB          |            |       |       |      |  |
|                | 2 x A165-L           | ON REQUEST |       |       |      |  |
|                | 2 x MET48MB          |            |       |       |      |  |
| 8              | 2 x A165-L           |            | NI DE | NUEST |      |  |
| ۰              | 2 x MET53MB          | ON REQUEST |       |       |      |  |
|                |                      |            |       |       |      |  |

Layout of stays attachment points on platform side according to WinGD standard design



Requirements on stays attachment points at ship hull side (per engine stay)

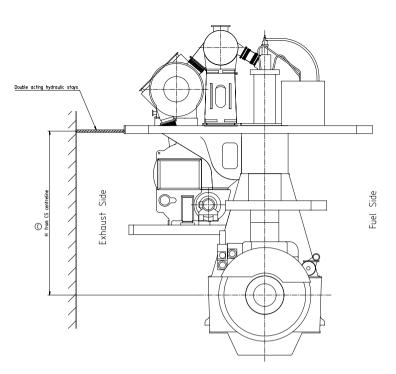
| Max. force acting on ship's hull  | Fh <sub>max</sub>  | (kN)  | <b>*</b> 1) |
|-----------------------------------|--------------------|-------|-------------|
| Minimum stiffness                 | k <sub>min.</sub>  | (N/m) | 0.5 x 10°   |
| Permissible deflection per 100 kN | Def <sub>max</sub> | (mm)  | 0.2         |

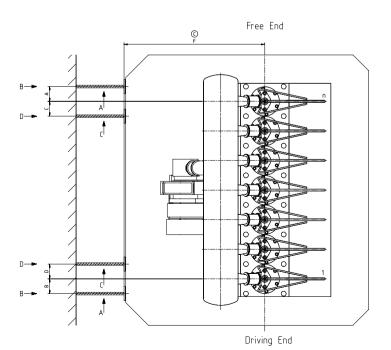
\*1) Maximum engine force resulting from lateral moments of X/H type at the project specific rating plus stays pre-tensioning force according to satys supplier's specification (C)

Requirements for application of hydraulic stays on fuel side AND exhaust side

- The selected stays must have makers' acceptance for both side engine installation.
- Installed on fuel side (FS) AND exhaust side (ES).
- The amount of stays must be determined based on the requirement and stays suppliers specification. The transferred forces must be taken into consideration. The engine forces and moments are defined in the relevant engine dynamic data sheet "Forces and Moments" which is linked in the Marine Installation Manual (MIM). Stay pre-tensioning forces (max. piston hydraulic force) must also be considered and are provided by the stays supplier.
- The stay attachment point requirements must be crosschecked with the specification. The maximum forces transferred by the selected stays type must be within the range as defined on this drawing for standard engine execution. If the total force per stay exceeds the permissible range, reinforcement of the platform attachment points can be requested from the engine builder.
- The stays must adapt to the ship hull deformation and reduce the static reaction force acting on the engine and ship hull attachment points.
- The stays must increase the total stiffness of the system to avoid harmful resonance conditions. The dynamic stiffness of the stays (dynamic spring rate) is provided by the stays supplier.
- The stays must dampen accordingly to ensure that the acceptable vibrations (RMS limits) for the WinGD 2-stroke engine are met.
- The performance of the stays must be checked during sea trial by vibration measurements.
- The installation and commissioning of the stays must be in accordance with the supplier's

| Max. permissible force in lateral direction | F,               | (kN)  | ± 320     |
|---|------------------|-------|-----------|
| Stiffness                                   | k                | (N/m) | 0.5 x 10° |
| Permissible vertical stays displacement     | Def,             | (mm)  | ± 50      |
| Permissible horizontal stays displacement   | Def,             | (mm)  | ± 50      |
| Permissible angular stays displacement      | Def <sub>a</sub> | (°)   | 2         |
|   |                  |       |           |





Remark:

The Engine outline view is drawn for a 7 cylinder with 1 TC. However, the specification of the stays attachment points in relation to the foremost/aft cylinder is vaild for all cylinder numbers and TC configulation. TC specific stay positions are provided in the table on right hand side.

Position of stay attachment points on platform side

0

| No. of<br>Cyl. | Turbocharger<br>type | Α          | В          | С     | D     | F    | Н    |  |  |
|----------------|----------------------|------------|------------|-------|-------|------|------|--|--|
|                | 1 x A170-L           |            |            |       |       |      |      |  |  |
| 5              | 1 x A265-L           |            | -          | ON RE | QUEST |      |      |  |  |
|                | 1 x MET66MB          | 1          |            |       |       |      |      |  |  |
|                | 1 x A175-L           |            |            |       |       |      |      |  |  |
| 6              | 1 x A265-L           |            |            | ON DE | THEST |      |      |  |  |
| "              | 1 x A270-L           | ON REQUEST |            |       |       |      |      |  |  |
|                | 1 x MET66MB          |            |            |       |       |      |      |  |  |
|                | 1 x A175-L           | ON REQUEST |            |       |       |      |      |  |  |
|                | 1 x A270-L           | 470        | 470        | 470   | 470   | 4475 | 5210 |  |  |
|                | 1 x MET60MB          | 470        | 470        | 470   | 470   | 4475 | 5210 |  |  |
| 7              | 1 x MET66MB          | 470        | 470        | 470   | 470   | 4475 | 5210 |  |  |
|                | 1 x MET71MB          |            |            |       |       |      |      |  |  |
|                | 2 x A165-L           |            | -          | ON RE | QUEST |      |      |  |  |
|                | 2 x MET48MB          | 1          |            |       |       |      |      |  |  |
| 8              | 2 x A165-L           |            | ON REQUEST |       |       |      |      |  |  |
| L"             | 2 x MET53MB          | ON KEWUEST |            |       |       |      |      |  |  |

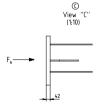
Requirements on stays attachment points at ship hull side (per engine stay)

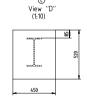
| Max. force acting on ship's hull  | Fh <sub>max</sub>  | (kN)  | <del>×</del> 1) |
|-----------------------------------|--------------------|-------|-----------------|
| Minimum stiffness                 | k <sub>min.</sub>  | (N/m) | 0.5 x 10°       |
| Permissible deflection per 100 kN | Def <sub>nax</sub> | (mm)  | 0.2             |

\*1) Maximum engine force resulting from lateral moments of X/H type at the project specific rating plus stays pre-tensioning force according to satys supplier's specification

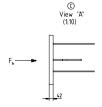
## Provided stay attachment points on engine / platform side

Layout of "inner" attachment points according to WinGD standard design





Layout of "outer" attachment points according to WinGD standard design





(0)

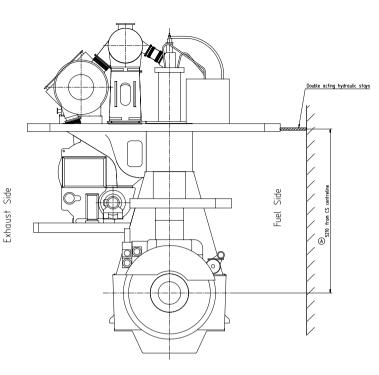
Requirements for application of hydraulic stays on exhaust side

- The selected stays must have makers' acceptance for one side engine installation.
- Installed on exhaust side (ES).
- The amount of stays must be determined based on the requirement and stays suppliers specification. The transferred forces must be taken into consideration. The engine forces and moments are defined in the relevant engine dynamic data sheet "Forces and Moments" which is linked in the Marine Installation Manual (MIM). Stay pre-tensioning forces (max. piston hydraulic force) must also be considered and are provided by the stays supplier.
- The stay attachment point requirements must be crosschecked with the specification. The maximum forces transferred by the selected stays type must be within the range as defined on this drawing for standard engine execution. If the total force per stay exceeds the permissible range, reinforcement of the platform attachment points can be requested from the engine builder.
- The stays must adapt to the ship hull deformation and reduce the static reaction force acting on the engine and ship hull attachment points.
- The stays must increase the total stiffness of the system to avoid harmful resonance conditions. The dynamic stiffness of the stays (dynamic spring rate) is provided by the stays supplier.
- The stays must dampen accordingly to ensure that the acceptable vibrations (RMS limits) for the WinGD 2-stroke engine are met.
- The performance of the stays must be checked during sea trial by vibration measurements.
- Stay position in the vertical direction, respectively the distance to the bottom side of the upper platform beam must be arranged in a way that sufficient space for welding and application of the max. admissible stays inclination remains.
- The installation and commissioning of the stays must be in accordance with the supplier's

| Max. permissible force in lateral direction | F,   | (kN)  | ± 90      |
|---|------|-------|-----------|
| Stiffness                                   | k    | (N/m) | 0.5 x 10° |
| Permissible vertical stays displacement     | Def, | (mm)  | ± 50      |
| Permissible horizontal stays displacement   | Def, | (mm)  | ± 50      |
| Permissible angular stays displacement      | Def. | (°)   | 2         |
|   |      |       |           |

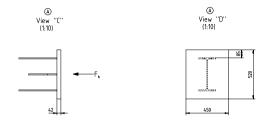
| Max. permissible force in lateral direction | F,   | (kN)  | ± 320     |
|---|------|-------|-----------|
| Stiffness                                   | k    | (N/m) | 0.5 x 10° |
| Permissible vertical stays displacement     | Def, | (mm)  | ± 50      |
| Permissible horizontal stays displacement   | Def, | (mm)  | ± 50      |
| Permissible angular stays displacement      | Def_ | (°)   | 2         |

| į   | X52DF   |   |                |          |                 |           |         |            |          |                   |     |     |
|---|---|---|----------------|----------|-----------------|-----------|---------|------------|----------|-------------------|-----|-----|
| [ [ [   | C sdet01 intu09 02082022 0MA002408 Drawing Updated            |   |                |          |                 | 4         | 3       |            |          |                   |     |     |
| į B   | sde101 mi   | hu019 12.11.2020 I                                    | EAAD095177     | Legac    | y inform        | nation.   | See cor | responding | Change   | Notice            | 4   | 3   |
| I A   | dki021 mi   | hu019 06.10.2018                                      | EAAD009852     | Legac    | y inform        | mation, ! | See cor | responding | Change   | Notice            | 4   |     |
| 4   | dki021 mi   | hu019 17,07,2018                                      |                | -        |                 |           |         |            |          |                   | -   |     |
| Rec.  | Creator As  | prover Approval Data                                  | Change ID      | Change 5 | recorie         |           |         |            | Approved | Artivity Code     | e   | G   |
| N   | <u>MN</u>   | <u>a</u>  | ENGINE STAYS   |          |                 |           |         |            |          |                   |     |     |
|   |   |   | Dimension      |          |                 |           |         |            |          | ES,               | LE  | FΤ  |
|   |   |   | Units [mm]     | (kg)     | Basic Mo        | neria!    |         |            | 14       | et Weight         | 0.0 | 001 |
| SUBALE PROTECTION SEE GROUP 1944 to taking poor |   |   | Main<br>Design |          | Design<br>Group |           | 9715    | 0-Code XX  | XXX      | Standard          | W   | DS  |
| TOLERANCING PRINCPLE ISO8075 of this crowing    | may be used in a<br>whering or any oth<br>arts or year 28, to | ny way for construction,<br>or purpose has capital in | Qty<br>per     |          | A0              | en<br>)   | PA      | AD294      | 763      | Oraning<br>Page(s | 1   | 1/1 |



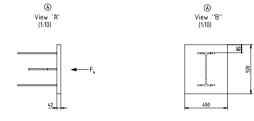
## Provided stay attachment points on engine / platform side

Layout of "inner" attachment points according to WinGD standard design



| Max. permissible force in lateral direction | Fh                 | (kN)  | ± 90      |
|---|--------------------|-------|-----------|
| Stiffness                                   | k <sub>min.</sub>  | (N/m) | 0.5 x 10° |
| Deflection per 100 kN                       | Def <sub>nox</sub> | (mm)  | 0.2       |

Layout of "outer" attachment points according to WinGD standard design



| Max. permissible force in lateral direction | F,                 | (kN)  | ± 320     |
|---|--------------------|-------|-----------|
| Stiffness                                   | k <sub>min.</sub>  | (N/m) | 0.5 x 10° |
| Deflection per 100 kN                       | Def <sub>max</sub> | (mm)  | 0.2       |



## Requirements for application of hydraulic stays on fuel side

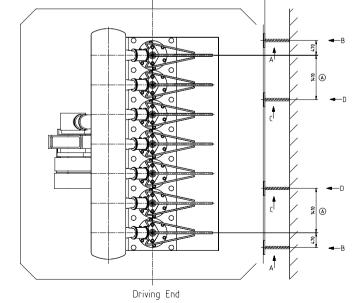
- The selected stays must have makers' acceptance for one side engine installation.
- Installed on fuel side (FS).
- The amount of stays must be determined based on the requirement and stays suppliers specification. The transferred forces must be taken into consideration. The engine forces and moments are defined in the relevant engine dynamic data sheet "Forces and Moments" which is linked in the Marine Installation Manual (MIM). Stay pre-Tensioning forces (max. piston hydraulic force) must also be considered and are provided by the stays supplier.
- The stay attachment point requirements must be crosschecked with the specification. The maximum forces transferred by the selected stays type must be within the range as defined on this drawing for standard engine execution. If the total force per stay exceeds the permissible range, reinforcement of the platform attachment points can be requested from the engine builder.
- The stays must adapt to the ship hull deformation and reduce the static reaction force acting on the engine and ship hull attachment points.
- The stays must increase the total stiffness of the system to avoid harmful resonance conditions. The dynamic stiffness of the stays (dynamic spring rate) is provided by the stays supplier.
- The performance of the stays must be checked during sea trial by vibration measurements.
- Stay position in the vertical direction, respectively the distance to the bottom side of the upper platform beam must be arranged in a way that sufficient space for welding and application of the max, admissible stays inclination remains.
- The installation and commissioning of the stays must be in accordance with the supplier's instructions.

④

Requirements on stays attachment points at ship hull side (per engine stay)

| Max. force acting on ship's hull  | Fh <sub>max</sub>  | (kN)  | <del>*</del> 1) |
|-----------------------------------|--------------------|-------|-----------------|
| Minimum stiffness                 | k <sub>nin</sub>   | (N/m) | 0.5 x 10°       |
| Permissible deflection per 100 kN | Def <sub>max</sub> | (mm)  | 0.2             |

\*1) Maximum engine force resulting from lateral moments of X/H type at the project specific rating plus stays pre-tensioning force according to satys supplier's specification

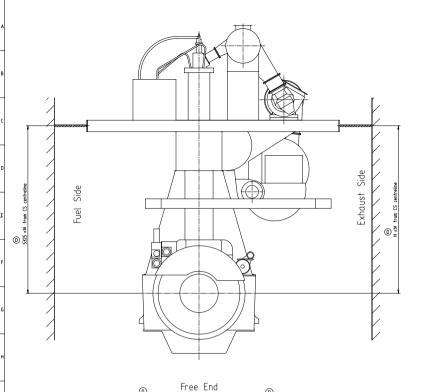


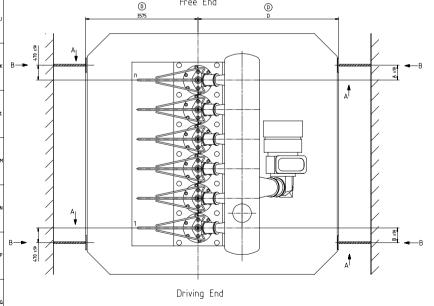
Free End

Remark:

The Engine outline view is drawn for a 7 cylinder with 1 TC. However, the specification of the stays attachment points in relation to the foremost/laft cylinder is vaild for all cylinder numbers and TC configulation. TC specific stay positions are provided in the table on right hand side.

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Remark:

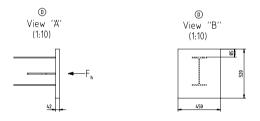
The Engine outline view is drawn for a 6 cylinder with 1 TC. However, the specification of the stays attachment points in relation to the foremost/aft cylinder is vaild for all cylinder numbers and TC configulation. TC specific stay positions are provided in the table on right hand side.

# ① Position of stay attachment points on platform side

| No. of<br>Cyl. | Turbocharger<br>type | Α   | В   | D    | Н    |  |  |  |
|----------------|----------------------|-----|-----|------|------|--|--|--|
| 5              | 1 x A265-L           | 470 | 470 | 4475 | 5325 |  |  |  |
| 5              | 1 x A165             | 470 | 470 | 4475 | 5325 |  |  |  |
| 6              | 1 x A265-L           | 470 | 470 | 4475 | 5325 |  |  |  |
| 7              | 1 x MET60MB          | 470 | 470 | 4475 | 5325 |  |  |  |
| ′              | 1 x MET66MB          | 470 | 470 | 4475 | 5325 |  |  |  |
| 8              | ON REQUEST           |     |     |      |      |  |  |  |

| No. of<br>Cyl. | Turbocharger<br>type | HP-SCR<br>Interface | Α   | В   | D    | Н    |
|----------------|----------------------|---------------------|-----|-----|------|------|
| 7              | 1 x A270-L           | X                   | 470 | 470 | 3700 | 5105 |

Layout of stays attachment points on platform side according to WinGD standard design



Requirements on stays attachment points at ship hull side (per engine stay)

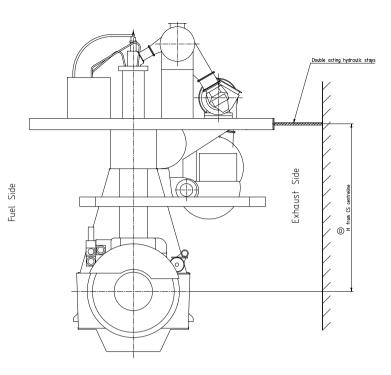
| Max. force acting on ship's hull  | Fh <sub>max</sub>  | (kN)  | <del>*</del> 1) |
|-----------------------------------|--------------------|-------|-----------------|
| Minimum stiffness                 | k <sub>min.</sub>  | (N/m) | 0.5 x 10°       |
| Permissible deflection per 100 kN | Def <sub>max</sub> | (mm)  | 0.2             |

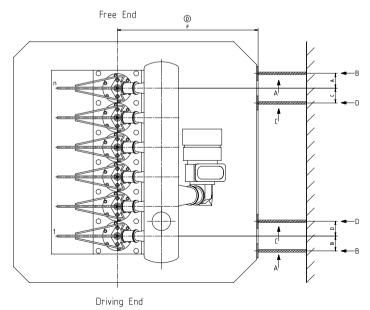
\*1) Maximum engine force resulting from lateral moments of X/H type at the project specific rating plus stays pre-tensioning force according to satys supplier's specification

Requirements for application of hydraulic stays on fuel side AND exhaust side

- The selected stays must have makers' acceptance for both side engine installation.
- Installed on fuel side (FS) AND exhaust side (ES).
- The amount of stays must be determined based on the requirement and stays suppliers specification. The transferred forces must be taken into consideration. The engine forces and moments are defined in the relevant engine dynamic data sheet "forces and Moments" which is linked in the Marine Installation Manual (MIM). Stay pre-tensioning forces (max. piston hydraulic force) must also be considered and are provided by the stays supplier.
- The stay attachment point requirements must be crosschecked with the specification. The maximum forces transferred by the selected stays type must be within the range as defined on this drawing for standard engine execution. If the total force per stay exceeds the permissible range, reinforcement of the platform attachment points can be requested from the engine builder.
- The stays must adapt to the ship hull deformation and reduce the static reaction force acting on the engine and ship hull attachment points.
- The stays must increase the total stiffness of the system to avoid harmful resonance conditions. The dynamic stiffness of the stays (dynamic spring rate) is provided by the stays supplier.
- The stays must dampen accordingly to ensure that the acceptable vibrations (RMS limits) for the WinGD 2-stroke engine are met.
- The performance of the stays must be checked during sea trial by vibration measurements.
- The installation and commissioning of the stays must be in accordance with the supplier's instructions

| Max. permissible force in lateral direction | F,               | (kN)  | ± 320     |
|---|------------------|-------|-----------|
| Stiffness                                   | k                | (N/m) | 0.5 x 10° |
| Permissible vertical stays displacement     | Def,             | (mm)  | ± 50      |
| Permissible horizontal stays displacement   | Def,             | (mm)  | ± 50      |
| Permissible angular stays displacement      | Def <sub>a</sub> | (°)   | 2         |





Remark:

The Engine outline view is drawn for a 6 cylinder with 1 TC. However, the specification of the stays attachment points in relation to the foremost/aft cylinder is vaild for all cylinder numbers and TC configulation. TC specific stay positions are provided in the table on right hand side.



#### Position of stay attachment points on platform side

| No. of<br>Cyl. | Turbocharger<br>type | А   | В   | С   | D   | F    | Н    |
|----------------|----------------------|-----|-----|-----|-----|------|------|
| 5              | 1 x A265-L           | 470 | 470 | 470 | 470 | 4475 | 5210 |
| 5              | 1 x A165             | 470 | 470 | 470 | 470 | 4475 | 5210 |
| 6              | 1 x A265-L           | 470 | 470 | 470 | 470 | 4475 | 5210 |
| 7              | 1 x MET60MB          | 470 | 470 | 470 | 470 | 4475 | 5210 |
| l '            | 1 x MET66MB          | 470 | 470 | 470 | 470 | 4475 | 5210 |
| 8              | 2 X A165             | 470 | 470 | 470 | 470 | 4475 | 5210 |

| ١ | No. of<br>Cyl. | Turbocharger<br>type | HP-SCR<br>Interface | А   | В   | С   | D   | F    | Н    |
|---|----------------|----------------------|---------------------|-----|-----|-----|-----|------|------|
| Γ | 7              | 1 x A270-L           | Х                   | 470 | 470 | 470 | 470 | 3700 | 5105 |

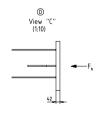
## Requirements on stays attachment points at ship hull side (per engine stay)

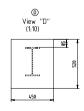
| Max. force acting on ship's hull  | Fh <sub>max</sub>  | (kN)  | <del>×</del> 1) |
|-----------------------------------|--------------------|-------|-----------------|
| Minimum stiffness                 | k <sub>min.</sub>  | (N/m) | 0.5 x 10°       |
| Permissible deflection per 100 kN | Def <sub>max</sub> | (mm)  | 0.2             |

\*1) Maximum engine force resulting from lateral moments of X/H type at the project specific rating plus stays pre-tensioning force according to satys supplier's specification

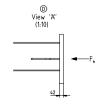
### Provided stay attachment points on engine / platform side

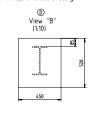
Layout of "inner" attachment points according to WinGD standard design





Layout of "outer" attachment points according to WinGD standard design





(II)

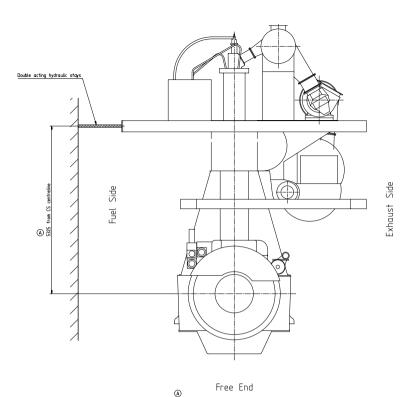
#### Requirements for application of hydraulic stays on exhaust side

- The selected stays must have makers' acceptance for one side engine installation.
- Installed on exhaust side (ES).
- The amount of stays must be determined based on the requirement and stays suppliers specification. The transferred forces must be taken into consideration. The engine forces and moments are defined in the relevant engine dynamic data sheet "Forces and Moments" which is linked in the Marine Installation Manual (MIM). Stay pre-Tensioning forces (max. piston hydraulic force) must also be considered and are provided by the stays supplier.
- The stay attachment point requirements must be crosschecked with the specification. The maximum forces transferred by the selected stays type must be within the range as defined on this drawing for standard engine execution. If the total force per stay exceeds the permissible range, reinforcement of the platform attachment points can be requested from the engine builder.
- The stays must adapt to the ship hull deformation and reduce the static reaction force acting on the engine and ship hull attachment points.
- The stays must increase the total stiffness of the system to avoid harmful resonance conditions. The dynamic stiffness of the stays (dynamic spring rate) is provided by the stays supplier.
- The stays must dampen accordingly to ensure that the acceptable vibrations (RMS limits) for the WinGD 2-stroke engine are met.
- The performance of the stays must be checked during sea trial by vibration measurements.
- Stay position in the vertical direction, respectively the distance to the bottom side of the upper platform beam must be arranged in a way that sufficient space for welding and application of the max. admissible stays inclination remains.
- The installation and commissioning of the stays must be in accordance with the supplier's

| Max. permissible force in lateral direction | F,   | (kN)  | ± 90      |
|---|------|-------|-----------|
| Stiffness                                   | k    | (N/m) | 0.5 x 10° |
| Permissible vertical stays displacement     | Def. | (mm)  | ± 50      |
| Permissible horizontal stays displacement   | Def, | (mm)  | ± 50      |
| Permissible angular stays displacement      | Def. | (°)   | 2         |

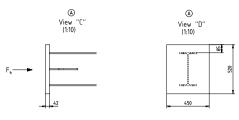
| Max. permissible force in lateral direction | F,   | (kN)  | ± 320     |
|---|------|-------|-----------|
| Stiffness                                   | k    | (N/m) | 0.5 x 10° |
| Permissible vertical stays displacement     | Def, | (mm)  | ± 50      |
| Permissible horizontal stays displacement   | Def, | (mm)  | ± 50      |
| Permissible angular stays displacement      | Def. | (°)   | 2         |

| 1                                 | į              |            | X52                              | OF .  |   |                | Т        |                 | T          | $\neg$ |             |          |                   |      |     |
|-----------------------------------|----------------|------------|----------------------------------|---|---|----------------|----------|-----------------|------------|--------|-------------|----------|-------------------|------|-----|
|                                   |                | D          | sde101                           | nhuOE                                       | 02082022  | CMA002408      | Drawi    | ng Upd          | ated       |        | '           |          |                   | 4    | 3   |
|                                   | î              | С          | sde101                           | mhu019                                      | 27.10.2020  | EAAD092791     | Legac    | y info          | mation.    | See co | rresponding | Chang    | eNotice           | 4    | 3   |
|                                   | i              | В          | sde101                           | mhu019                                      | 05.07.2019  | EAAD090559     | Legac    | y info          | mation.    | See co | rresponding | Chang    | eNotice           | 4    | 3   |
|                                   | å              | -          | di:021                           | mhu019                                      | 17,07,2018  |                | -        |                 |            |        |             |          |                   | -    | -   |
|                                   |                |            | Greator                          | Approved                                    | Approval Date   | Change ID      | Change 6 | iyrepsis        |            |        |             | Approved | Activity Code     |      | c   |
|                                   |                | V.         | NIV.                             | Ģ   | 2   | ENGIN          | E S      | TAYS            | 5          |        |             |          |                   |      |     |
| ]                                 |                |            |                                  |   |   | Dimension      |          |                 |            |        |             |          | E                 | S, S |     |
|                                   | 868            |            | 1:30                             |   | ♠ NX  | Uriss (mm)     | (kg)     | Basic M         | iaserial   |        |             |          | Net Weight        | 0.   | 001 |
| SOMBRE IMPLECTION SEE CHOOP GRAY  | by too         |            | session of the                   | traving the<br>liter the wh                 | A lights reserved.<br>reciprent recognitions<br>and not any said. | Main<br>Design |          | Design<br>Group |            | 9715   | 0-Code XX   | XXX      | Standard          | W    | DS  |
| TOLERANCING PRINCIPLE ISSBITS     | Maria<br>Maria | CONTRACTOR | a trought used<br>wheling or any | in any way !<br>allow purpo<br>to third out | or construction.  | Oty<br>per     |          |                 | Bern<br>ID | PΔ     | AD294       | 628      | Drawing<br>Page(s |      | 1/1 |
| parent recovery accrets to become | -              | 1 400      | es company or                    |   | R COMPLETE.   | ye.            |          |                 |            |        |             |          | r og ers          |      |     |

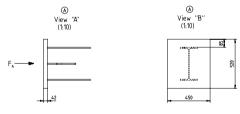


## Provided stay attachment points on engine / platform side

Layout of "inner" attachment points according to WinGD standard design



| Max. permissible force in lateral direction | F <sub>h</sub>     | (kN)  | ± 90      |
|---|--------------------|-------|-----------|
| Stiffness                                   | k <sub>min.</sub>  | (N/m) | 0.5 x 10° |
| Deflection per 100 kN                       | Def <sub>nax</sub> | (mm)  | 0.2       |



| Max. permissible force in lateral direction | F,                 | (kN)  | ± 320     |
|---|--------------------|-------|-----------|
| Stiffness                                   | k <sub>min.</sub>  | (N/m) | 0.5 x 10° |
| Deflection per 100 kN                       | Def <sub>max</sub> | (mm)  | 0.2       |

Layout of "outer" attachment points according to WinGD standard design

# Driving End

The Engine outline view is drawn for a 6 cylinder with 1 TC. However, the specification of the stays attachment points in relation to the foremost/aft cylinder is vaild for all cylinder numbers and TC configulation. TC specific stay positions are provided in the table on right hand side.

(A)

#### Requirements for application of hydraulic stays on fuel side

- The selected stays must have makers' acceptance for one side engine installation.
- Installed on fuel side (FS).
- The amount of stays must be determined based on the requirement and stays suppliers specification. The transferred forces must be taken into consideration. The engine forces and moments are defined in the relevant engine dynamic data sheet "Forces and Moments" which is linked in the Marine Installation Manual (MIM). Stay pre-tensioning forces (max. piston hydraulic force) must also be considered and are provided by the stays supplier.
- The stay attachment point requirements must be crosschecked with the specification.

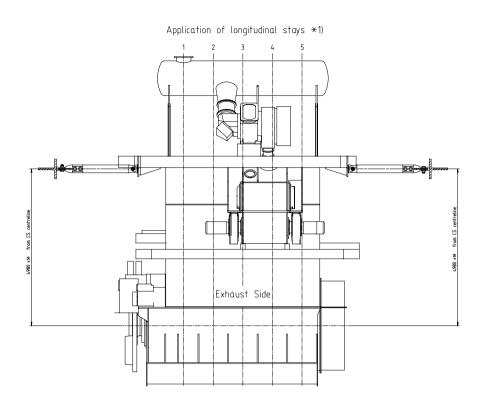
  The maximum forces transferred by the selected stays type must be within the range as defined on this drawing for standard engine execution. If the total force per stay exceeds the permissible range, reinforcement of the platform attachment points can be requested from the engine builder.
- The stays must adapt to the ship hull deformation and reduce the static reaction force acting on the engine and ship hull attachment points.
- The stays must increase the total stiffness of the system to avoid harmful resonance conditions. The dynamic stiffness of the stays (dynamic spring rate) is provided by the
- The performance of the stays must be checked during sea trial by vibration measurements.
- Stay position in the vertical direction, respectively the distance to the bottom side of the upper platform beam must be arranged in a way that sufficient space for welding and application of the max. admissible stays inclination remains.
- The installation and commissioning of the stays must be in accordance with the supplier's instructions.

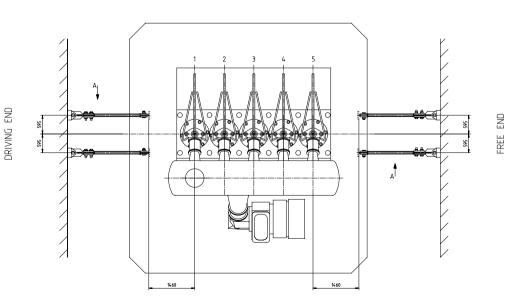
Requirements on stays attachment points at ship hull side (per engine stay)

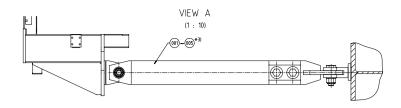
| Max. force acting on ship's hull  | Fh <sub>eax</sub>  | (kN)  | <b>*</b> 1) |
|-----------------------------------|--------------------|-------|-------------|
| Minimum stiffness                 | k <sub>min.</sub>  | (N/m) | 0.5 x 10°   |
| Permissible deflection per 100 kN | Def <sub>max</sub> | (mm)  | 0.2         |

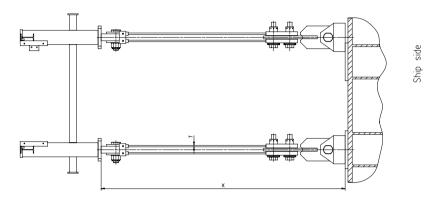
 $\star$ 1) Maximum engine force resulting from lateral moments of X/H type at the project specific rating plus stays pre-tensioning force according to satys supplier's specification











Specification for application of stays according to WinGD design

- Stays of friction type \*1)
   Transmission of tensile and compressive forces.
   Attached on engine driving end (DE) or free end (FE).

## Requirements for ship side attachment point

| Max. force acting on ship's hull *2) | Fh <sub>max</sub>  | (kN)  | 90        |
|--------------------------------------|--------------------|-------|-----------|
| Minimum stiffness                    | k <sub>nin.</sub>  | (N/m) | 0.8 × 10° |
| Permissible deflection per 100 kN    | Def <sub>nox</sub> | (mm)  | 0.125     |

- \*1) Stays of friction type must be only installed in longitudinal direction. As an alternative also stays of hydraulic type can be applied.
- \*2) Relevant engine forces resulting from lateral moments of X/H-type at R1 rating are considered. The provided value represents the transmitted force per stay (2 pcs per side) which has to be considered for the layout of the attachment points on ship hull side.

| Pos.<br>No. *3) | Material<br>ID | X<br>(mm)   | T (mm) |
|-----------------|----------------|-------------|--------|
| 001             | PAAD046700     | 2000 - 2280 | 15     |
| 002             | PA AD046701    | 2281 - 2560 | 20     |
| 003             | PAAD046702     | 2561 - 2840 | 25     |
| 004             | PAAD046703     | 2841 - 3120 | 30     |
| 005             | PAAD046704     | 3121 - 3400 | 35     |

- X defines the clear width between engine attachment points and ship side (to be determined by shipyard)
- X min. = 2000 mm X max. = 3400 mm
- \*3) Depending on the requirement either the stay execution of Pos. 001, 002, 003, 004 or Pos. 005 has to be selected.

| _            |  |        |           |      |         |      |        | luot  | 010   | IDS   | ıue   | rzung      |   |                       |     |                |
|--------------|--|--------|-----------|------|---------|------|--------|-------|-------|-------|-------|------------|---|-----------------------|-----|----------------|
| И            | SXSDF SXSDF (STD or LEFT) ENGINE SWS Stays location: DE or FE Motorabstuetzung |        |           |      |         |      |        |       |       |       |       |            |   |                       |     |                |
| į            | Numbe  |        | Organ det |      | Numb    | er   | Oram d | *     | 1,    | anber |       | Drawn date |   | Number                | Ora | en date        |
| <del>-</del> | ·  |        |           | r    | ·       |      |        | _r    | 7     |       |       |            |   | O; JIS                | _   |                |
| Tre space    |  |        |           |      |         |      |        |       |       |       |       |            |   | XXXX                  |     | Drv.           |
|              | MG   |        |           | _    |         |      |        | Cline | enska | , Occ | Drawl | ing        |   | erici Stondor<br>isde | ŧ   | GR.MET<br>Main |
| αrγ          | 300  | 160    | heriol D  | Mat  | erial M | one  |        |       |       |       | Stano | tard or    |   | k Material            |     | Melota         |
| 2            | 001  | BAAI   | 004670    | EN.  | GNE     | STAY | S/ FRI | CTION | Т     | /PE   | DA.   | AD018242   | Γ |                       |     | 302            |
| 2            | 002  | PAAI   | 004670    | 1 EN | GNE     | STAY | S/ FRI | CTION | ΙT    | rPE   | DA.   | AD018242   |   |                       |     | 330            |
| 2            | 003  | PAAI   | 004670    | 2    |         |      | S/ FRI |       |       |       | DA    | AD018242   | L |                       |     | 359            |
| 2            | 004  | PAAE   | 004670    | 1    |         |      | S/ FRI |       |       | _     | DA    | AD018242   | L |                       |     | 387            |
| 2            | 005  | PAA[   | 04670     | ٠_   |         |      | S/ FRI |       |       |       | UA.   | AD018242   |   |                       |     | 417            |
| 1            | 006  | 107.24 | 6.429.50  | 0    |         |      | NSTRU  |       |       |       |       | 246.429    |   |                       |     | 0,001          |



# Friction type stays according to WinGD design

ONLY to be installed in longitudinal direction on engine driving end or free end

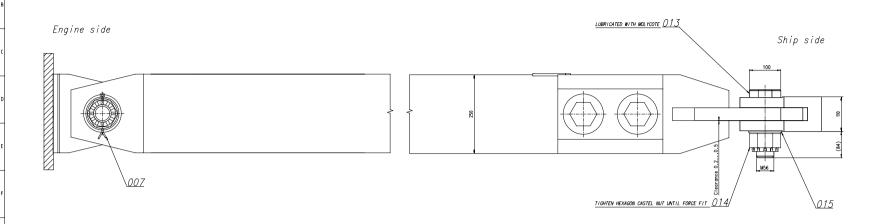
Please consult WinGD directly in case you have a specific question or need support.

## **DISCLAIMER**

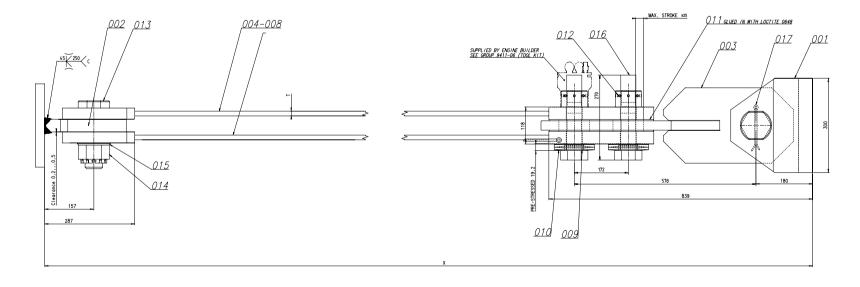
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| Material<br>ID | X<br>(mm) | T (mm) |
|----------------|-----------|--------|
| PAAD046700     | 2000-2280 | 15     |
| PAAD046701     | 2281-2560 | 20     |
| PAAD046702     | 2561-2840 | 25     |
| PAAD046703     | 2841-3120 | 30     |
| PAAD046704     | 3121-3400 | 35     |



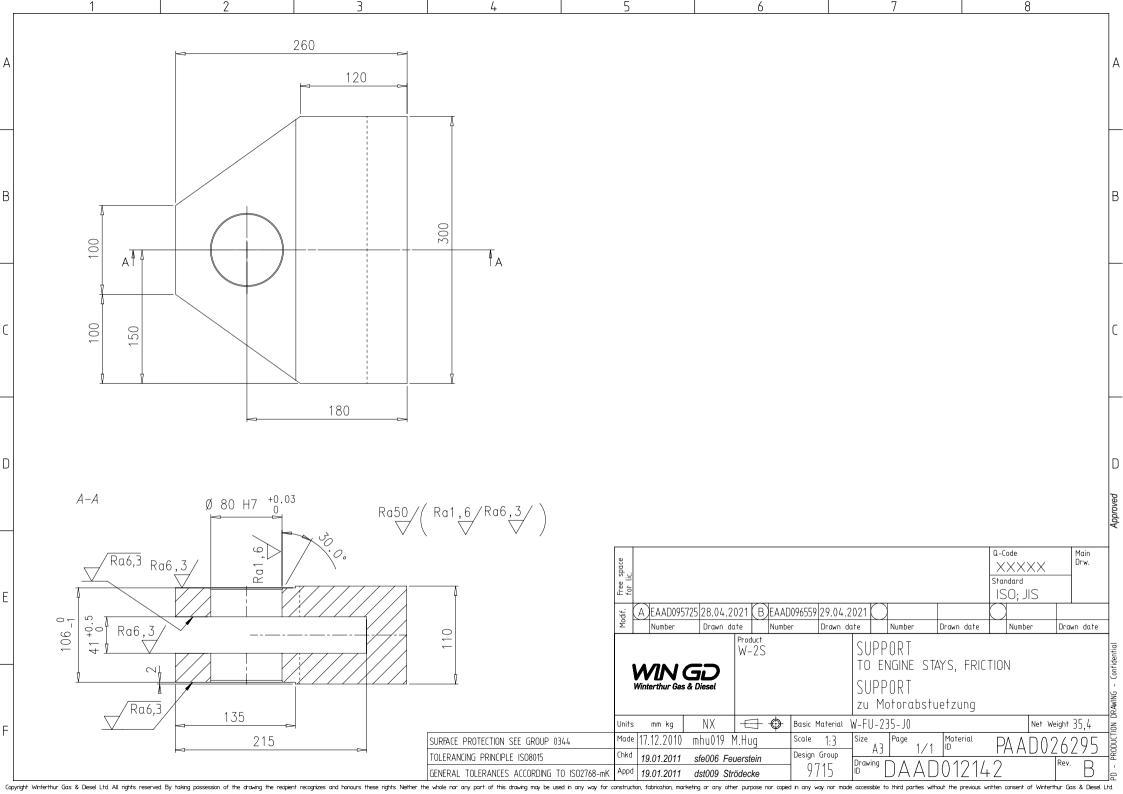
NOTE: X- CLEAR WIDTH BETWEEN ENGINE AND SHIP SIDE; TO BE DETERMINED BY SHIPYARD (SEE MAIN DRAWING)

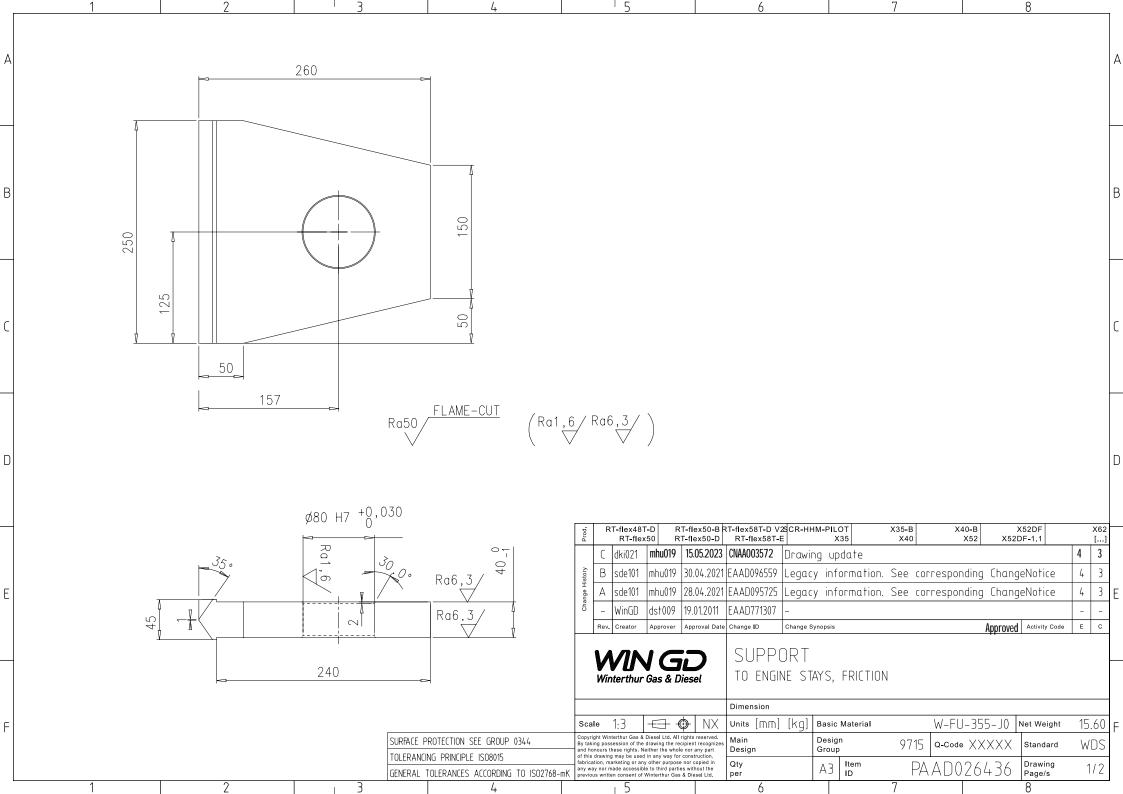
| æ      |             | glerial     | e<br>de    | ₹         | ž          | 2 A EAA0066524 19.04.2016 B EAA0095725 18.01.2021 Dram date Number Dram date Number Dram date Number |       |          |         |     |      | Oraun date | Number   | Dra                  | n date          |                                   |      |               |
|--------|-------------|-------------|------------|-----------|------------|--|-------|----------|---------|-----|------|------------|----------|----------------------|-----------------|-----------------------------------|------|---------------|
| WU9WOW | PLAD04.6703 | PAAD04.6702 | 3cAD046701 | 3AD046700 | free space | ~  |       |          |         |     |      |            |          | Standard<br>ISO; JIS |                 | Main<br>Drv.                      |      |               |
|        |             | Quartity    |            |           | SEC        | Material   | 0     | Material | l Hone  |     |      | Dine       | nsion, C | Stan<br>Draw         | stand or<br>ing | Basic Material<br>Material Standa | re   | Wigh<br>GR.NE |
| 1      | 1           | 1           | 1          | 1         | 00         | 1 PAAD026  | 295   | SUPF     | PORT    |     |      |            |          | DA                   | AD012142        | W-FU-235-                         | J0   | 35            |
| 1      | 1           | 1           | 1          | 1         | 00:        | PAAD026  | 436   | SUPF     | PORT    |     |      |            |          | DA                   | AD012141        | W-PU-355-                         | .00  | 15.           |
| 1      | 1           | 1           | 1          | 1         | 00         | B PAAD902  | 2231  | CLAN     | 1PING F | ART |      |            |          | DA                   | AD902576        |                                   |      | 54            |
| -      | -           | -           | -          | 2         | 00         | PAAD902  | 252   | ENGI     | ne sta  | YS  |      |            |          | DA                   | AD902592        |                                   |      | 79            |
| -      | -           | -           | 2          | -         | 00         | FAAD902  | 247   | ENGI     | ne sta  | YS  |      |            |          | DA                   | AD902592        |                                   |      | 93            |
| -      | -           | 2           | -          | -         | 00         | 6 PAAD902  | 257   | ENGI     | ne sta  | YS  |      |            |          | DA                   | AD902592        |                                   |      | 10            |
| -      | 2           | -           | -          | -         | 00         | 7 PAAD902  | 268   | ENGI     | ne sta  | YS  |      |            |          | DA                   | AD902592        |                                   |      | 12            |
| 2      | -           | -           | -          | -         | 000        | B PAAD902  | 262   | ENGI     | ne sta  | YS  |      |            |          | _                    | AD902592        |                                   |      | 1             |
| 2      | 2           | 2           | 2          | 2         | 00         | 9 107.246.31   | 6.001 | RING     |         |     |      | × 50       |          | 100                  | 246.316         | RSt 37-2                          |      | 0.            |
| 4      | 4           | 4           | 4          | 4         | 010        | 107.246.31   | 1,001 | DISC     | SPRIN   | G   | 125  | X 6        |          | 202                  | 246.311         |                                   |      | 0.5           |
| 2      | 2           | 2           | 2          | 2         | 01         | 1 PAAD902  | 269   | SHIM     |         |     |      | - 4        | THIO     | DA                   | AD902593        |                                   |      | 2             |
| 2      | 2           | 2           | 2          | 2         | 013        | 2 107.345.87   | 6.008 | ROUN     | ND NUT  |     |      |            | M4       | 107                  | 345.876         | W-FA-42CrM                        | b-ar | 1,4           |
| 2      | 2           | 2           | 2          | 2         | 01         | BAAD026  | 437   | BOLT     |         |     |      |            |          |                      | AD012368        | C45E<br>S45C                      |      | 7.            |
| 2      | 2           | 2           | 2          | 2         | 014        | 015.201.30   | 4.610 | CAST     | TLE NU  | Т   |      |            | MS       |                      | . WinGD         | CIERCIEC                          |      | 1,6           |
| 2      | 2           | 2           | 2          | 2         | 015        | 015.500.10   | 2.330 | WASI     | HER     |     |      |            | 5        | ON                   | 125-1           | Steel blan                        | ,    | 0.4           |
| 2      | 2           | 2           | 2          | 2         | 010        | 015.151.02   | 4.781 | HEXA     | agon h  | ÆAD | BOLT |            | 8x24     | ICO                  | 4014            | 8.8                               |      | 4             |
| 2      | 2           | 2           | 2          | 2         | 01         | 015.509.01   | 7.503 | SPLI     | TPIN    |     |      |            | 8x10     | ISO                  | 1234            | Steel Zn-pl                       | ated | 0.0           |
| 41     | £           | 320         | 330        | 302       |            |  |       |          |         |     |      |            |          |                      |                 |                                   |      |               |
|        | . *         | et Weig     |            |           | l          |  |       |          |         |     |      |            |          |                      |                 |                                   |      |               |

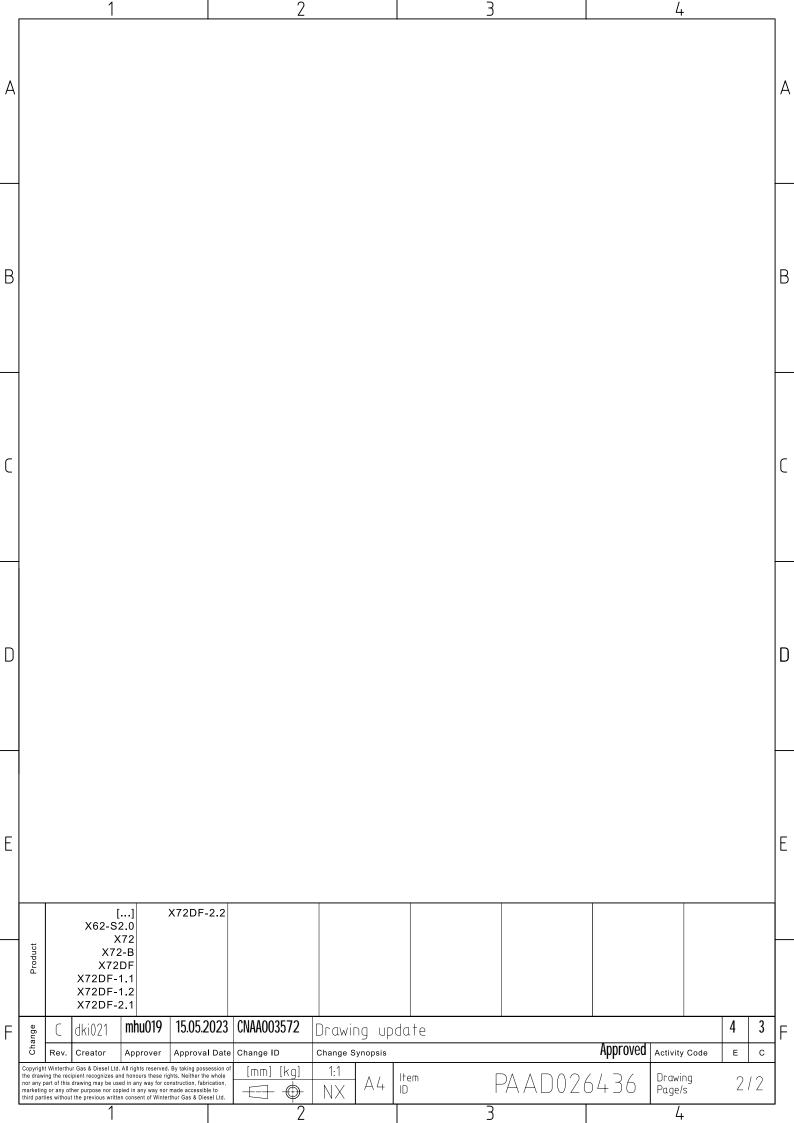
Motorenabstuetzung mit Reibbelag

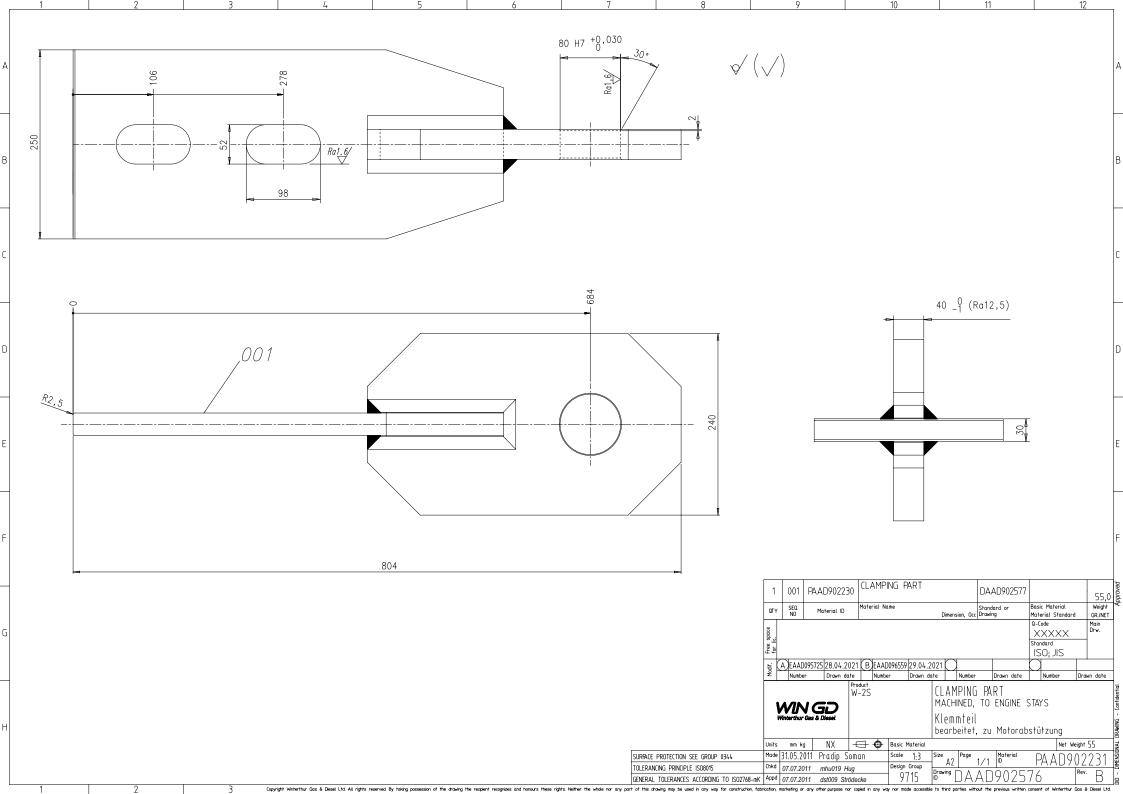
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WNGD



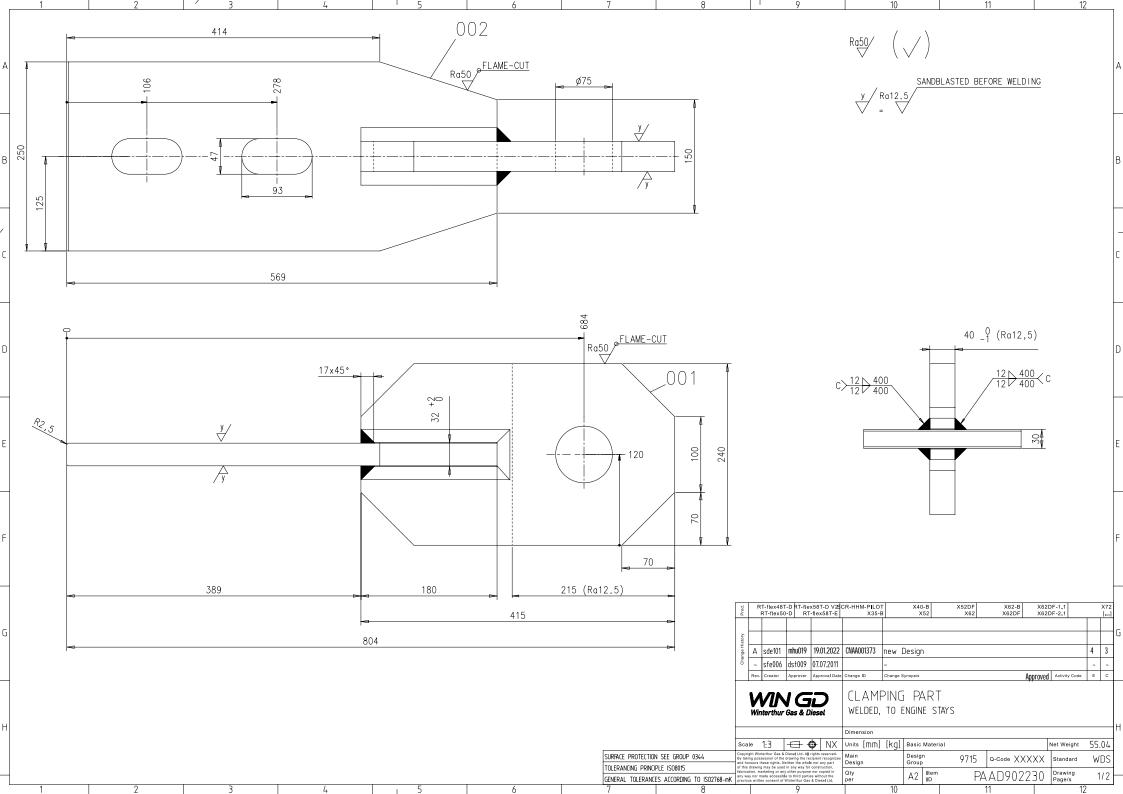


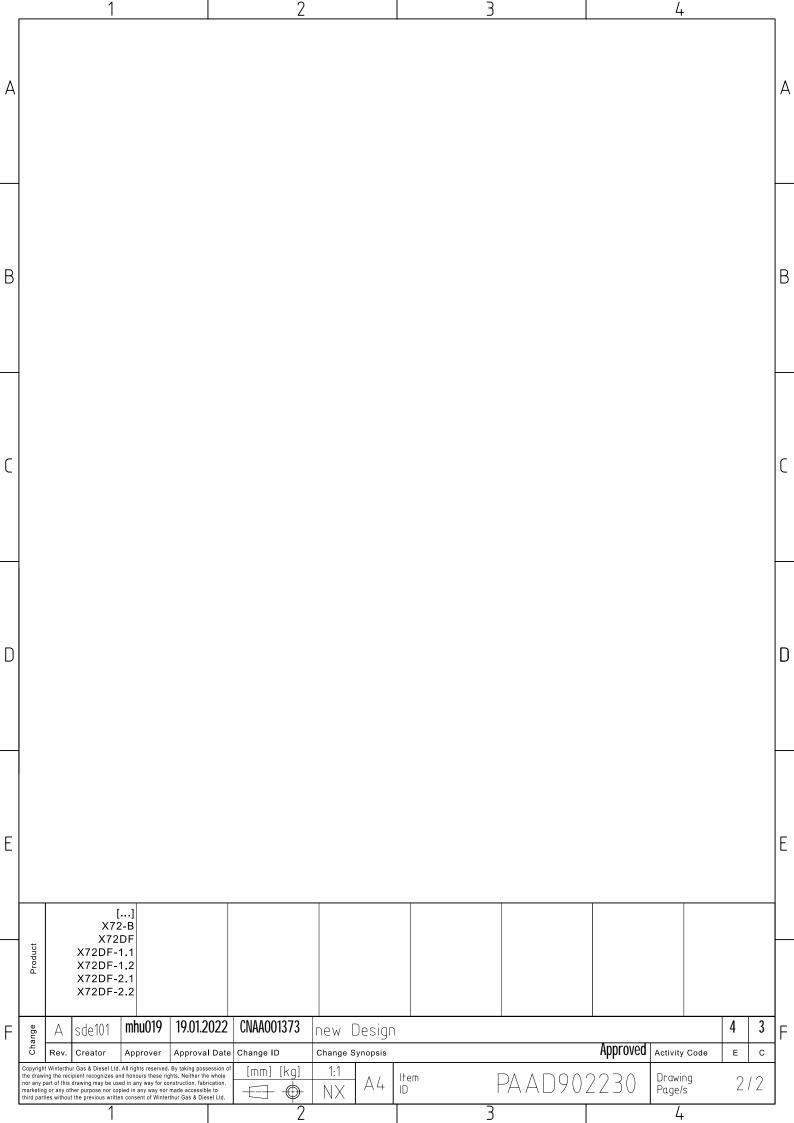


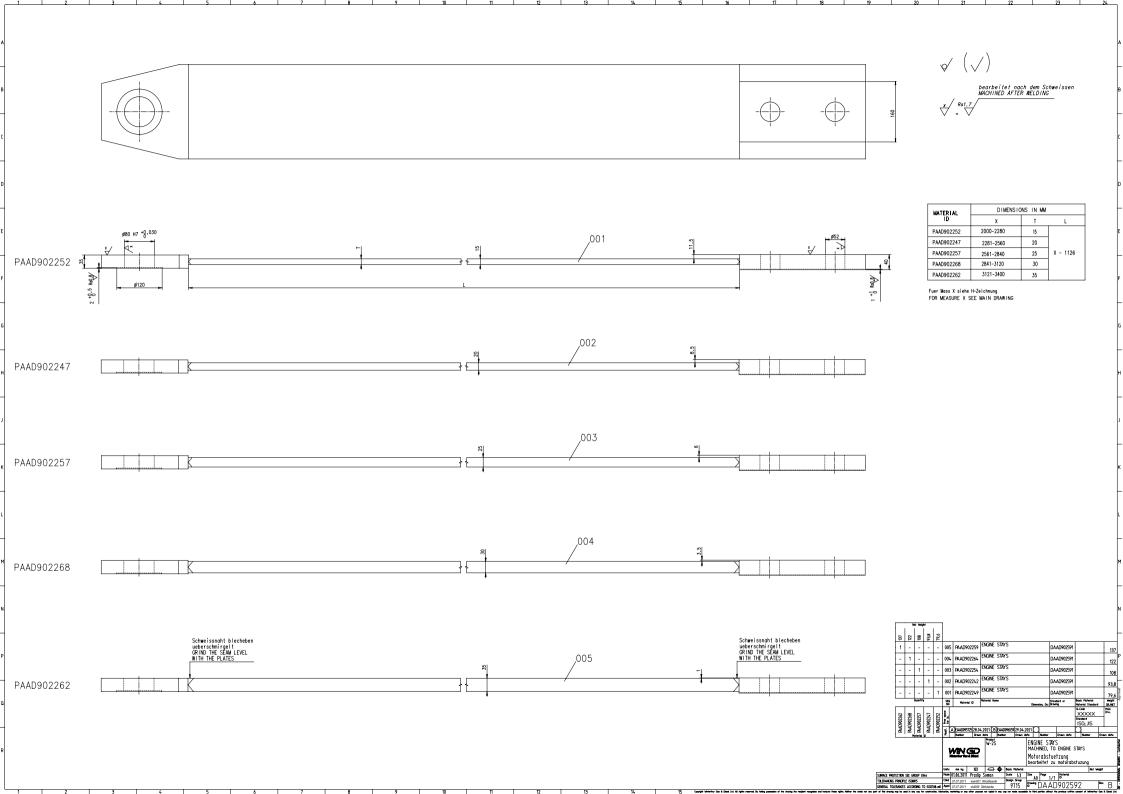


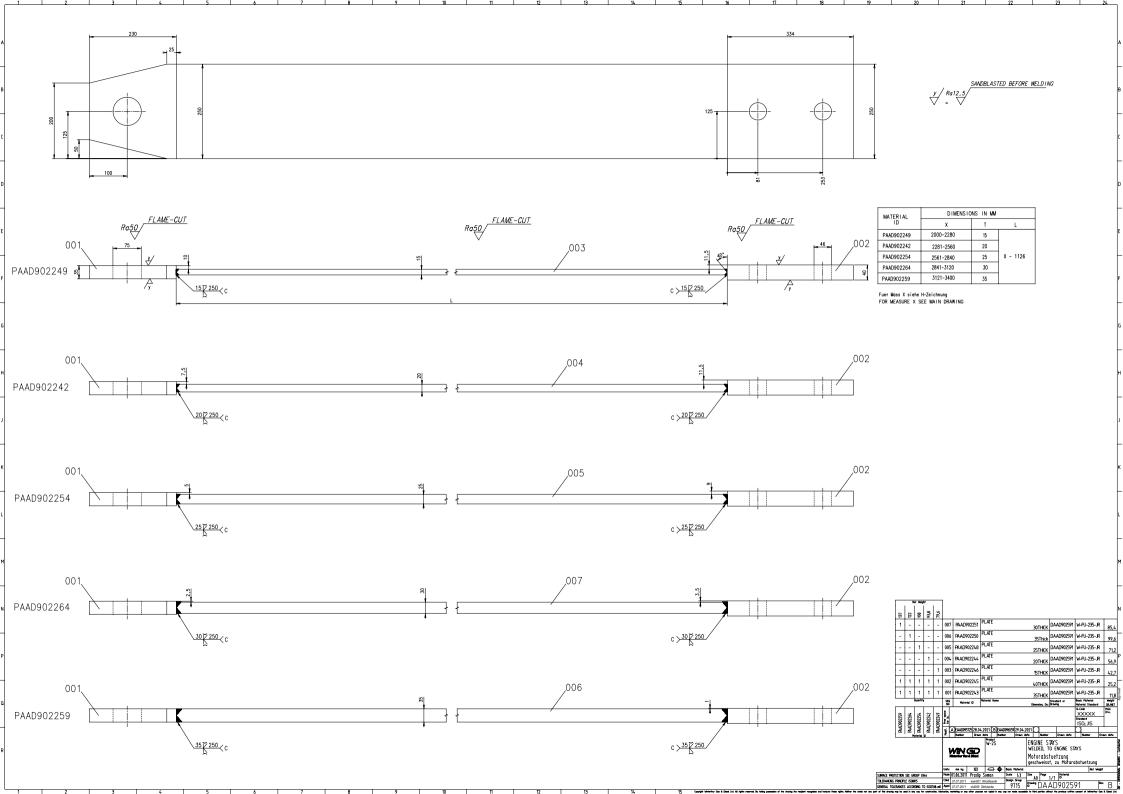
|                      | QTY              | Y liter  | em ID   | Item Name   |   |   | Dimension | Standard-ID          | Basic Material |                           | ١         | Ne<br>Weigh |
|----------------------|------------------|--|---|---|---|---|-----------|----------------------|----------------|---------------------------|-----------|-------------|
| 1                    | 1                | PA   | AAD902253   | PLATE   |   |   | 40 THICK  |                      | S355J2G3       |                           |           | 24.7′       |
| 2                    | 1                | PA   | AAD902229   | PLATE   |   |   |           |                      | S235JRG2       |                           | :         | 30.13       |
| _                    |                  |  |   |   |   |   | 30 THICK  |                      | 020001102      |                           |           |             |
|                      |                  |  |   |   |   |   |           |                      |                |                           |           |             |
|                      |                  |  |   |   |   |   |           |                      |                |                           |           |             |
|                      |                  |  |   |   |   |   |           |                      |                |                           |           |             |
|                      |                  |  |   |   |   |   |           |                      |                |                           |           |             |
|                      |                  |  |   |   |   |   |           |                      |                |                           |           |             |
|                      |                  |  |   |   |   |   |           |                      |                |                           |           |             |
|                      |                  |  |   |   |   |   |           |                      |                |                           |           |             |
|                      |                  |  |   |   |   |   |           |                      |                |                           |           |             |
|                      |                  |  |   |   |   |   |           |                      |                |                           |           |             |
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| J.                   |                  | RT-  | -fley48T-D  | RT-fley50-R   | RT-fley58T-D V2   | SCR-HHM-PII OT  | X4        | D.B. X52DF           | x              | 62-R                      | X62[      | DE-         |
| 7100.                |                  |  | -flex48T-D<br>RT-flex50   | RT-flex50-B<br>RT-flex50-D  | RT-flex58T-D V2<br>RT-flex58T-E                                     | SCR-HHM-PILOT<br>X35-B  |           | 0-B X52DF<br>(52 X62 |                | (62-B<br>62DF             | X621      |             |
|                      |                  |  |   |   |   |   |           |                      |                |                           | X62U      |             |
|                      | Δ                |  | RT-flex50   | RT-flex50-D   | RT-flex58T-E  | X35-B   |           |                      |                |                           |           | [           |
|                      | A                | sde1   | 101 <b>mhu019</b>   | RT-flex50-D 19.01.2022  |   |   |           |                      |                |                           | X620<br>4 | DF [        |
|                      | A -              |  | 101 <b>mhu019</b> dst009  | RT-flex50-D   | RT-flex58T-E  | X35-B  Drawing Updated  |           | (52 X62              | Xe             |                           | 4         | 3           |
| Change History Prod. | -<br>Rev.        | sde1 sfe00 Creato  | 101 <b>mhu019</b> 106 dst009 107 Approver   | 19.01.2022<br>07.07.2011<br>Approval Date   | CNAA001373 Change ID  | Drawing Updated - Change Synopsis   | ,         | (52 X62              |                | 62DF                      | 4         | 3           |
|                      | -<br>Rev.        | sde1 sfe00 Creato  | 101 <b>mhu019</b> 106 dst009 107 Approver   | 19.01.2022<br>07.07.2011<br>Approval Date   | CNAA001373 Change ID  | Drawing Updated   | ,         | (52 X62              | Xe             | 62DF                      | 4         | 3           |
|                      | - Rev.           | sde1 sfe00 Creato  | 101 <b>mhu019</b> dst009  | 19.01.2022<br>07.07.2011<br>Approval Date   | CNAA001373 Change ID  | Drawing Updated - Change Synopsis   | RT        | (52 X62              | Xe             | 62DF                      | 4         |             |
|                      | - Rev.           | sde1 sfe00 Creato  | non mhu019 non Approver  Thur Gas &   | 19.01.2022 07.07.2011 Approval Date  Diesel   | CNAA001373  Change ID  CLAM WELDED,                                 | Drawing Updated - Change Synopsis   | RT        | (52 X62              | Xe             | 62DF                      | 4         |             |
| Change History       | Rev.             | sde1 sfe00 Creato  | nnhu019 n06 dst009 or Approver  Thur Gas & Bill Of Materia or Gas & Diesel Ltd  | 19.01.2022 07.07.2011 Approval Date  Diesel  All rights reserved.   | CNAA001373 Change ID  | Drawing Updated - Change Synopsis  PING PA TO ENGINE S                          | RT        | (52 X62              | Xe             | Activity Code             | 4 -<br>E  | 3           |
| Change History       | Rev.             | sde1 sfe00 Creato  Maintern  Binterthu possess and hono  | RT-flex50  101 mhu019 106 dst009 or Approver  Thur Gas & Diesel Ltd sion of the docurours these rights. N   | 19.01.2022 07.07.2011 Approval Date  Diesel  al  All rights reserved. ment the recipient either the whole nor | CNAA001373  Change ID  CLAM  WELDED,  Dimension  Units              | Drawing Updated - Change Synopsis  PING PA TO ENGINE S                          | RT        | (52 X62              | Approved       | 62DF                      | 4 - E     | 3           |
| Change History       | Rev.  Wiight Wii | sde1 sfe00 Creato  Binterthu possess and honor this door | RT-flex50  101 mhu019 106 dst009 107 Approver  Thur Gas & Diesel Ltd sion of the docur of the docur ours these rights. No coument may be us the outstoon marketing or are | 19.01.2022 07.07.2011 Approval Date  Diesel  al  All rights reserved. ment the recipient either the whole nor | CNAA001373  Change ID  CLAM  WELDED,  Dimension  Units  Main Design | Drawing Updated - Change Synopsis  PING PA TO ENGINE S  [m] [kg] Basic Material | RT        | (52 X62              | Approved       | Activity Code  Net Weight | 4 - E     | 4.8         |

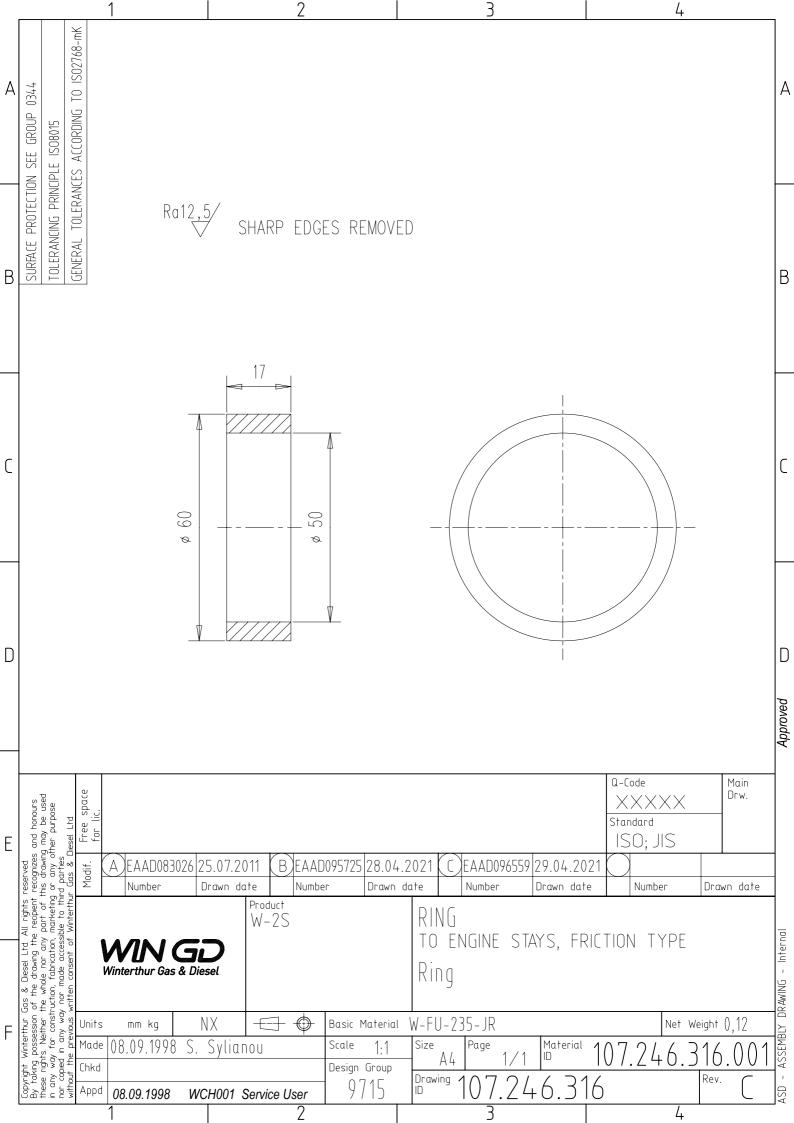
| SEQ<br>NO                                      | QTY | Item ID          |                  | Item Name   |            |             |        | Dimension  | Standard-ID | Basic Material |               | V                 | Net<br>Veight |
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|  |     | X62DF-<br>>      | []<br>2.1<br>(72 | X72DF-2.2   |            |             |        |            |             |                |               |                   |               |
| Product  |     | X7:<br>X72       | 2-B<br>DF        |   |            |             |        |            |             |                |               |                   |               |
|  |     | X72DF-<br>X72DF- | 1.1<br>1.2       |   |            |             |        |            |             |                |               |                   |               |
| Ф  | Α   | X72DF-<br>sde101 | mhu019           | 19.01.2022  | CNAA001373 | Drawing U   | Indato | d          |             |                |               | 4                 | 3             |
| Change   | -   | Creator          | Approver         | Approval Date   | Change ID  | Change Syno |        | <u> </u>   |             | Approved A     | Activity Code | <del>4</del><br>E | C             |
| Copyright<br>recipient<br>used in a<br>made ad |     |                  |                  | ved. By taking possession<br>he whole nor any part of the<br>or any other purpose nor of<br>itten consent of Winterthul |            |             | A4     | Item<br>ID |             | 902230         | 1             |                   | 2/02          |

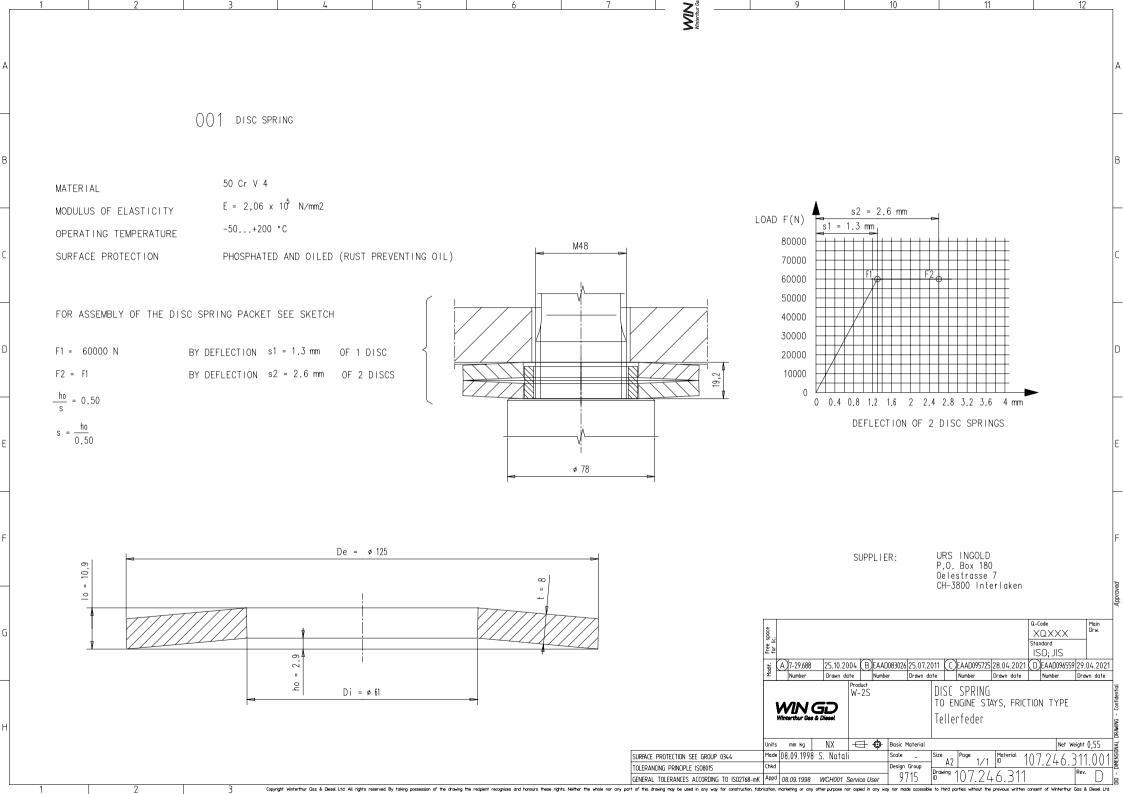


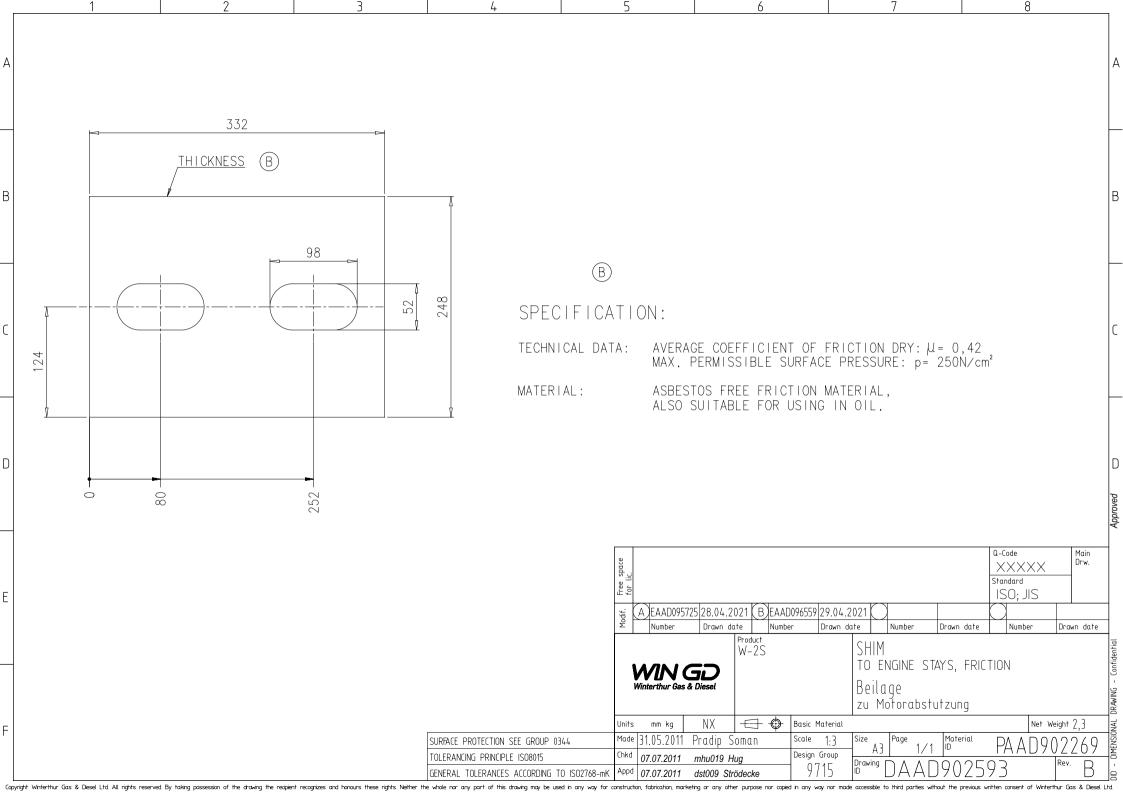


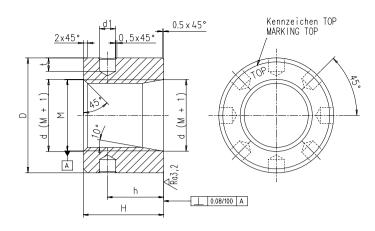












| POS. | М    | D   | d   | Н   | h  | d1                | t  |
|------|------|-----|-----|-----|----|-------------------|----|
| 001  | M27  | 47  | 28  | 29  | 20 | 6 <sup>+0.2</sup> | 7  |
| 002  | M30  | 52  | 31  | 33  | 23 | 6 0.2             | 7  |
| 003  | M33  | 57  | 34  | 36  | 25 | 6 <sup>+0.2</sup> | 7  |
| 004  | M36  | 62  | 37  | 39  | 27 | 6 0.2             | 7  |
| 005  | M39  | 67  | 40  | 42  | 29 | 6 0.2             | 7  |
| 006  | M42  | 73  | 43  | 46  | 32 | 6 <sup>+0.2</sup> | 7  |
| 007  | M45  | 78  | 46  | 49  | 34 | 6 <sup>+0.2</sup> | 7  |
| 008  | M48  | 83  | 49  | 52  | 36 | 6 0.2             | 7  |
| 009  | M52  | 90  | 53  | 56  | 39 | 6 0 0 0           | 7  |
| 010  | M56  | 97  | 57  | 61  | 43 | 9.5 +0.2          | 10 |
| 011  | M60  | 104 | 61  | 65  | 46 | 9.5 +0.2          | 10 |
| 012  | M64  | 110 | 65  | 70  | 49 | 9.5 +0.2          | 10 |
| 013  | M68  | 117 | 69  | 74  | 52 | 9.5 +0.2          | 10 |
| 014  | M72  | 124 | 73  | 78  | 55 | 9.5 +0.2          | 10 |
| 015  | M76  | 131 | 77  | 82  | 57 | 9.5 +0.2          | 10 |
| 016  | M80  | 138 | 81  | 87  | 61 | 14 0.2            | 15 |
| 017  | M85  | 146 | 86  | 92  | 64 | 14 0.2            | 15 |
| 018  | M90  | 155 | 91  | 98  | 69 | 14 +0.2           | 15 |
| 019  | M95  | 164 | 96  | 103 | 72 | 14 +0.2           | 15 |
| 020  | M100 | 172 | 101 | 108 | 76 | 14 +0.2           | 15 |
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| Ra6,3/ | ( Ra3,2/ ) |
|--------|------------|
| K00,3/ | ( Ka3,4/ ) |

| MATERIAL:     | W-FA-42CrMo-QT ①  |
|---------------|---|
| D >40 - ≤100  | verguetet Rm = 900-1100 N∕mm <sup>2</sup><br>HEAT TREATED |
| D >100 - ≤160 | verguetet Rm = 800-950 N/mm <sup>2</sup><br>HEAT TREATED  |
| D >160 - ≤250 | verguetet Rm = 750-900 N/mm <sup>2</sup><br>HEAT TREATED  |

| 1 1 1                  | 020<br>019<br>018 | 107.345.876.020<br>107.345.876.019 | ROUNE      |          |            |              | M100     | 107.           | 345.876       | W-FA-42CrMo-                        | -ar  | 13.2             |          |
|------------------------|-------------------|------------------------------------|------------|----------|------------|--------------|----------|----------------|---------------|-------------------------------------|------|------------------|----------|
| _                      | +**               | 107.345.876.019                    | ROUND      | N III IT |            |              | 11100    |                |               |                                     |      | 13,2             | 1        |
| 1                      | 018               |                                    |            | J NUI    |            |              | M95      | 107.           | 345.876       | W-FA-42CrMo                         | -ar  | 11,4             | F        |
|                        |                   | 107.345.876.018                    | ROUNE      | ) NUT    |            |              | M90      | 107.           | 345.876       | W-FA-42CrMo                         | -ar  | 9,7              |          |
| 1                      | 017               | 107.345.876.017                    | ROUNE      | ) NUT    |            |              | M85      | 107.           | 345.876       | W-FA-42CrMo                         | -ar  | 8,1              | L        |
| 1                      | 016               | 107.345.876.016                    | ROUNE      | NUT      |            |              | M80      | 107.           | 345.876       | W-FA-42CrMo                         | -ar  | 6,8              |          |
| 1                      | 015               | 107.345.876.015                    | ROUNE      | ) NUT    |            |              | M76      | 107.           | 345.876       | W-FA-42CrMo                         | -ar  | 5,9              | G        |
| 1                      | 014               | 107.345.876.014                    | ROUNE      | ) NUT    |            |              | M72      | 107.           | 345.876       | W-FA-42CrMo                         | -ar  | 5,0              |          |
| 1                      | 013               | 107.345.876.013                    | ROUNE      | ) NUT    |            |              | M68      | 107.           | 345.876       | W-FA-42CrMo                         | -ar  | 4,2              |          |
| 1                      | 012               | 107.345.876.012                    | ROUNE      |          |            |              | M64      | 107.           | 345.876       | W-FA-42CrMo-                        | -ar  | 3,5              |          |
| 1                      | 011               | 107.345.876.011                    | ROUNE      |          |            |              | M60      | 107.           | 345.876       | W-FA-42CrMo-                        | -ar  | 2,9              | H        |
| 1                      | 010               | 107.345.876.010                    | ROUNE      |          |            |              | M56      | 107.           | 345.876       | W-FA-42CrMo-                        | -ar  | 2,36             |          |
| 1                      | 009               | 107.345.876.009                    | ROUNE      |          |            |              | M52      | 107.           | 345.876       | W-FA-42CrMo                         | -ar  | 1,86             |          |
| 1                      | 008               | 107.345.876.008                    | ROUNE      |          |            |              | M48      | 107.           | 345.876       | W-FA-42CrMo                         | -ar  | 1,42             |          |
| 1                      | 007               | 107.345.876.007                    | ROUNE      |          |            |              | M45      | 107.           | 345.876       | W-FA-42CrMo-                        | -ar  | 1,2              |          |
| 1                      | 006               | 107.345.876.006                    | ROUNE      |          |            |              | M42      | 107.           | 345.876       | W-FA-42CrMo-                        | -ar  | 0,96             | ľ        |
| 1                      | 005               | 107.345.876.005                    | ROUNE      | ) NUT    |            |              | M39      | 107.           | 345.876       | W-FA-42CrMo-                        | -ar  | 0,79             |          |
| 1                      | 004               | 107.345.876.004                    | ROUNE      |          |            |              | M36      | 107.           | 345.876       | W-FA-42CrMo-                        | -OT  | 0,63             | Ī        |
| 1                      | 003               | 107.345.876.003                    | ROUNE      |          |            |              | M33      | 107.           | 345.876       | W-FA-42CrMo-                        | -OT  | 0,49             |          |
| 1                      | 002               | 107.345.876.002                    | ROUNE      |          |            |              | M30      | 107.           | 345.876       | W-FA-42CrMo                         | -OT  | 0,37             | K        |
| 1                      | 001               | 107.345.876.001                    | ROUNE      |          |            |              | M27      |                | 345.876       | W-FA-42CrMo                         | -OT  | 0,25             | Approved |
| QTY                    | SEQ.<br>NO        | Material ID                        | Material N | iame     | D          | limens       | ion, Occ | Stand<br>Drawi | lard or<br>ng | Basic Material<br>Material Standard |      | Weight<br>GR/NET | F        |
| free space<br>for lic. |                   |                                    |            |          |            |              |          |                |               |                                     |      | Main<br>Drw.     |          |
| Modif.                 | (A) EAAE          | 0700017   13.01.2011               | (B)EAA     | D084319  | 06.02.2013 | $\mathbb{C}$ | EAAD06   | 37822          | 28.07.2017    | D)EAAD095725                        | 18.0 | 1.2021           |          |
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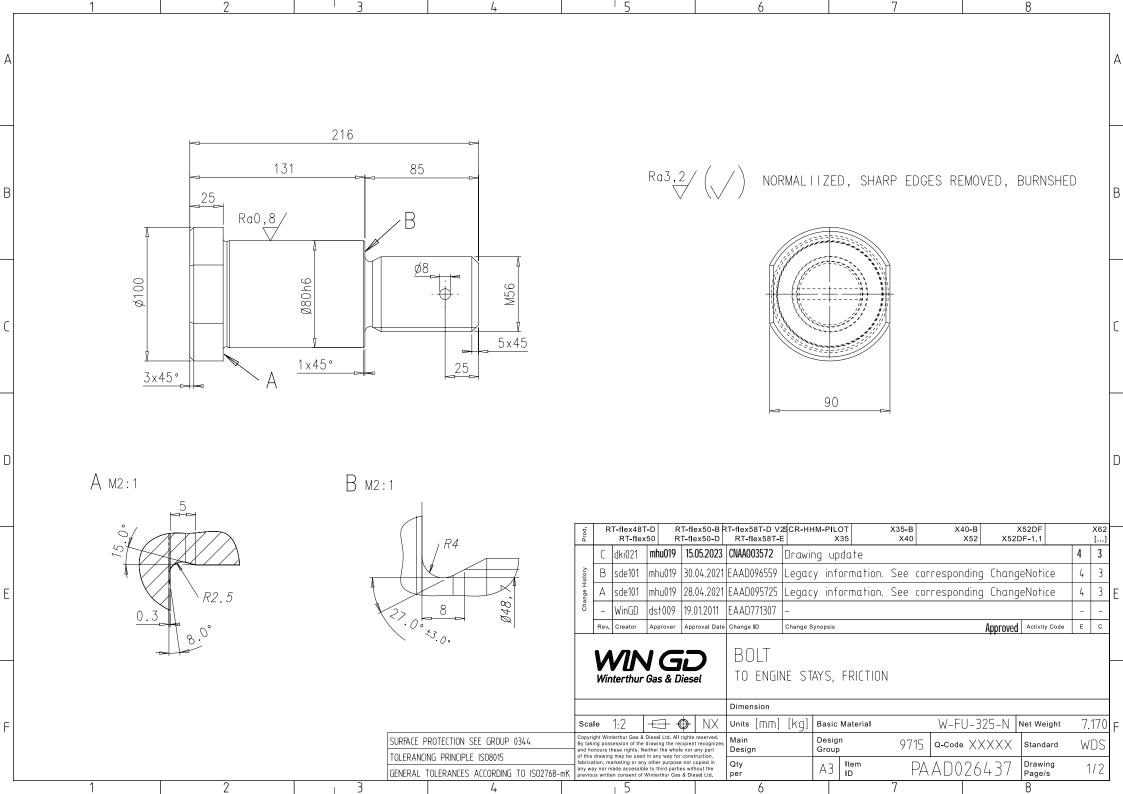
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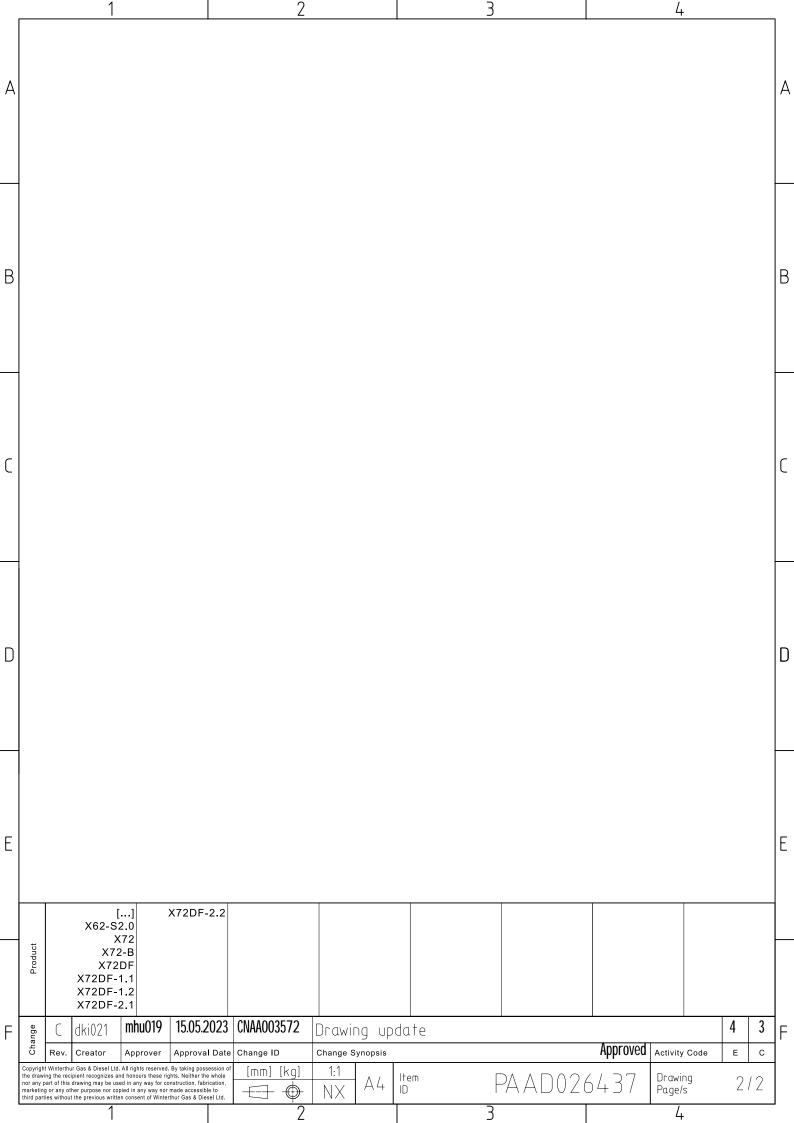
SURFACE PROTECTION SEE GROUP 0344

TOLERANCING PRINCIPLE ISO8015

Net Weight

Rev. D







# MIDS - Engine Stays (DG9715)

WinGD X52DF/ X52DF-1.1

## TRACK CHANGES

| DATE       | SUBJECT  | DESCRIPTION      |
|------------|--|------------------|
| 2018-07-19 | DRAWING SET  | First web upload |
| 2018-10-05 | DAAD103409<br>DAAD100390<br>DAAD100398<br>DAAD100444<br>DAAD100451   | new revision     |
| 2019-07-17 | DAAD100390<br>DAAD100398   | new revision     |
| 2020-11-25 | DAAD103409<br>DAAD100390<br>DAAD100398<br>DAAD100444<br>DAAD100451<br>107.345.876  | new revision     |
| 2021-05-19 | DAAD018242<br>DAAD012142<br>DAAD012141<br>DAAD012457<br>DAAD902591<br>DAAD902592<br>107.246.316<br>107.246.311<br>DAAD902593<br>107.345.876<br>DAAD012368_ | new revision     |

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| 2022-09-29 | PAAD294628<br>PAAD294642<br>PAAD294648<br>PAAD294661<br>PAAD294763<br>PAAD294782   | new revision |
|------------|--|--------------|
| 2025-10-14 | PAAD300929-C PAAD300931-C PAAD300932-C PAAD300935-C PAAD300937-C PAAD300922-C PAAD300924-C PAAD300925-C PAAD300925-C PAAD300927-C PAAD300928-C PAAD300928-C PAAD3009231-B PAAD902231-B PAAD902231-A PAAD026437-C | new revision |

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