

## **APPENDIX 12 TO THE GENERAL CONTRACT OF USE**

|                                      |
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| <b>CATALOGUE OF DAMAGE TO WAGONS</b> |
|--------------------------------------|

| Category           | Part  | Type of damage  | Additional information  | Responsibility of  |         |   |
|--------------------|---|---|---|--|---------|---|
|                    |   |   |   | Keeper   | User RU |   |
| Runnig gear        |   |   |   |  |         |   |
|                    | Tyred wheel   | Tyre lose, laterally displaces, cracked                           | No sign of thermal overloading  | X  |         |   |
|                    |   |   | Visible signs of thermal overloading (brake equipment faulty)                       | X  |         |   |
|                    |   |   | Visible signs of thermal overloading (brake equip. operational)                     |  | X       |   |
|                    | Tyre / wheel centre / solid wheel / wheel tread                     | Brake equipment faulty  |   | No sign of thermal overloading                                     | X       |   |
|                    |   |   |   | Braking equipment operational                                      |         | X |
|                    |   | Cracks in the disc  |   | No sign of thermal overloading                                     | X       |   |
|                    |   |   |   | Visible signs of thermal overloading (brake equipment faulty)      | X       |   |
|                    |   |   |   | Visible signs of thermal overloading (brake equipment operational) |         | X |
|                    |   | Clamping notches  |   |  | X       |   |
|                    |   | Measuring circle not visible                                      | Excessive wear of wheel centre (diameter too small)                                 |  | X       |   |
|                    |   | Damage from track brakes  | Notches with sharp-angled apex in the tyre and the rim or the lower rim of the tyre |  |         | X |
|                    |   | Traces of abrasion, flanges damaged                               | Accidental damage <sup>1)</sup>   |  |         | X |
|                    |   | Cavity, shelling or flaking                                       | Not including thermal overloading   |  | X       |   |
|                    | Metal inclusions, flats   |   | Brake equipment faulty  | X  |         |   |
|                    |   |   | Brake equipment operational   |  | X       |   |
|                    | Occasional dents in wheel tread                                     | Accidental damage <sup>1)</sup>                                   |   |  | X       |   |
|                    | Out-of-roundness  |   |   | X  |         |   |
|                    |   |   | If the damage can be clearly attributed to the RU                                   |  | X       |   |
|                    |   |   |   |  |         |   |
|                    | Axle shaft  | Traces of abrasion on the axle shaft                              |   | Damage to wagon  | X       |   |
| No damage to wagon |   |   |   |  | X       |   |
| Bent out of shape  |   |   |   |  | X       |   |
| Cracks             |   | Not the result of force   | X   |  |         |   |
|                    |   |   |   |  |         |   |
| Axle-boxes         | Hot axle-box  |   | Confirmed   | X  |         |   |
|                    |   |   | Not confirmed   |  | X       |   |
|                    | Recent leakage of lubricant   |   | X   |  |         |   |
|                    | Traces of contact on the axle-box housing (top-contact with bogies) | Suspension and dampers in good condition and wagon not overloaded |   | X  |         |   |
| Manganese plates   |   |   | Missing   | X  |         |   |
|                    |   |   | Cracked weld beads  | X  |         |   |

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| Category                   | Part                                 | Type of damage   | Additional information                               | Responsibility of |         |
|----------------------------|--------------------------------------|--|--|-------------------|---------|
|                            |                                      |  |  | Keeper            | User RU |
| <b>Suspension</b>          |                                      |  |  |                   |         |
|                            | Springs                              | Ruptured, cracked, etc.  |  | X                 |         |
|                            |                                      | Fatigued   |  | X                 |         |
|                            |                                      | Wrongly fitted (parallel)  |  | X                 |         |
|                            |                                      | Wrongly fitted (characteristic curve) or wrong type of leaf spring   |  | X                 |         |
|                            | Friction damper                      | Any type of damage   |  | X                 |         |
| <b>Brake</b>               |                                      |  |  |                   |         |
|                            | Mechanical and pneumatic brake parts | Defective brake rigging  | Accidental damage <sup>1)</sup>                      |                   | X       |
|                            |                                      |  | Wear   | X                 |         |
|                            |                                      | Defective changeover device  | Accidental damage <sup>1)</sup>                      |                   | X       |
|                            |                                      |  | Wear   | X                 |         |
|                            |                                      | Defective hand brake   |  | X                 |         |
|                            |                                      | Brake blocks (all types of damage)   |  | X                 |         |
|                            |                                      | Defective hand brake   | Accidental damage <sup>1)</sup>                      |                   | X       |
|                            |                                      |  | Wear   | X                 |         |
|                            |                                      | Safety stirrup missing   |  | X                 |         |
|                            |                                      | Safety stirrup damaged or defective  | Accidental damage <sup>1)</sup>                      |                   | X       |
|                            |                                      | Other brake parts defective (e.g. distributor, load-weigh valve, brake cylinder, changeover device, relay valve, etc.) | Confirmed (brake report included)                    | X                 |         |
|                            |                                      |  | Not confirmed  |                   | X       |
|                            |                                      | Brake pipe leaking   | Wear   | X                 |         |
|                            |                                      |  | Accidental damage <sup>1)</sup> (distorted, cracked) |                   | X       |
|                            |                                      | Defective brake hose   | cracked, leaking                                     | X                 |         |
| Defective brake connection |                                      | X  |  |                   |         |
| Defective air brake parts  | Confirmed by brake test              | X  |  |                   |         |
|                            | Not confirmed by brake test          |  | X  |                   |         |

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| Category             | Part                                | Type of damage  | Additional information  | Responsibility of                                    |         |   |
|----------------------|-------------------------------------|---|---|--|---------|---|
|                      |                                     |   |   | Keeper   | User RU |   |
| Underframe and bogie | Wagon underframe                    | Fatigue cracks, fissuring   |   | X  |         |   |
|                      | Headstock or solebar                | Deformed  | Except traces of fatigue                                      |  | X       |   |
|                      | Axle guard                          | Deformed  |   |  |         | X |
|                      |                                     | Broken or loose   |   |  | X       |   |
|                      | Axle guard tie bar                  | Bent or broken  |   |  |         | X |
|                      |                                     | Loose   |   |  | X       |   |
|                      | Suspension bracket                  | Loose, fatigue cracking   |   |  | X       |   |
|                      |                                     | Fissured, deformed  | Accidental damage <sup>1)</sup>                               |  |         | X |
|                      | Underframe / bogie connection       | Connecting parts loose or damaged   |   |  | X       |   |
|                      | Bogie frame                         | Deformed  |   |  |         | X |
|                      |                                     | Fatigue cracks  |   |  | X       |   |
|                      | Bogie side bearers                  | Any type of damage  |   |  | X       |   |
|                      | Overhaul plate                      | Vehicle erroneously removed from service before expiry of overhaul period |   | Costs for authorisation to run / special consignment |         | X |
|                      | General markings as required by law | Incomplete  |   |  | X       |   |
|                      |                                     | Illegible   | E.g. because of projecting load, papered over, graffiti, etc. |  | X       |   |
|                      |                                     |   | Graffiti on RID dangerous goods wagon                         |  |         | X |
| Earthing cable       | Missing                             |   |   |  | X       |   |
|                      | Damaged                             | Wear  |   | X  |         |   |

| Category                     | Part   | Type of damage  | Additional information   | Responsibility of |         |
|------------------------------|--|---|--|-------------------|---------|
|                              |  |   |  | Keeper            | User RU |
| <b>Buffing and draw gear</b> |  |   |  |                   |         |
|                              | Buffer   | Different types   | Not previously changed by an RU  | X                 |         |
|                              |  | Buffer position not within tolerance range / Plunger stuck    | Traces of impact (contact between plunger and sleeve)<br>Old cracks and / or welds |                   | X       |
|                              | Anti-crash device  | Defective   | hunting impacts at too high speeds   |                   | X       |
|                              |  |   | Normal wear  | X                 |         |
|                              | Buffer head  | Broke or distorted  |  |                   | X       |
|                              | Buffer sleeve  | Broken or cracked   | Normal wear  | X                 |         |
|                              |  |   | Result of force <sup>1)</sup>  |                   | X       |
|                              | Buffer fastening   | Loosened<br>Broken  | Normal wear  | X                 |         |
|                              |  |   | No fatigue cracks  |                   | X       |
|                              | Buffer spring  | Ineffective   | Can be compressed by hand  | X                 |         |
|                              | Draw hook / draw bar   | Broken  | Fatigue (old crack)  | X                 |         |
|                              |  |   | Accidental damage <sup>1)</sup> (clean recent breakage)                            |                   | X       |
|                              |  |   | Twisted  |                   | X       |
|                              |  |   |  | X                 |         |
| Drawgear                     | Torn out   | Accidental damage <sup>1)</sup>                               |  | X                 |         |
| Screw coupler                | Wear<br>Accidental damage <sup>1)</sup>                                |   | X  |                   |         |
|                              |  |   |  | X                 |         |
| Screw coupling dummy hook    | Twisted, broken  |   |  | X                 |         |
| <b>Superstructure</b>        |  |   |  |                   |         |
|                              | In general   | Wear and tear   |  | X                 |         |
|                              |  | Accidental damage <sup>1)</sup> when in the custody of the RU |  |                   | X       |
|                              | Ladders, walkways, steps,<br>towing rings, handrails,<br>label-holders | Wear  |  | X                 |         |
|                              |  | Accidental damage <sup>1)</sup> when in the custody of the RU |  |                   | X       |
| Tank                         |  | Damage resulting from damaged underframe                      | Accidental damage <sup>1)</sup> when in the custody of the RU                      |                   | X       |
|                              |  | Damage to the tank  | Accidental damage <sup>1)</sup> when in the custody of the RU                      |                   | X       |
|                              |  | Bracing / sealing caps not air /<br>waterlight                | Accidental damage <sup>1)</sup> when in the custody of the RU                      |                   | X       |
|                              |  | Tank cradle cracked   |  | X                 |         |
|                              |  |   | Accidental damage <sup>1)</sup> when in the custody of the RU                      |                   | X       |
| Earthing cable (on the tank) | Missing, damaged<br>Wear   |   | X  |                   |         |
|                              |  |   | X  |                   |         |

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