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| Meeting Description | Fifth Project Meeting in St. Pölten (Austria) |
| Meeting hosted by | Höhere Technische Bundeslehr- und Versuchsanstalt |

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| Date / Time / Place | Thursday, 31 th January 2013, School, Room No. WS 3 |
| Name of Workline | Workline A – Locomotive |
| Name of Workgroup | Loco 3 |

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| Representative workgroup member | [LU] Jean-Jaques Zeimes |
| Co-representative workgroup member | [DK] Flemming Gronborg |
| Co-representative workgroup member | |

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| Further workgroup members | [LU] Mil May, [LU] Fränz Sadler |
| | [AT-FUL] Matthias Höfer, [AT-FUL] Andreas Wanken |
| | [IT] Fabio Gastablo Brac, [IT] Roberto Nigra, [IT] Michele Agati, |
| | [FI] Niko Naemela, [FI] Ilkka T. Kemppainer |
| | [HR] Tomislav Kacunko, [HR] Filip Matek, [HR] Gorobna Eric |

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| Minute written by | [LU] Mil May |
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| Description of work progress: Topics / Tasks / Results / Decisions / Facts of importance | Responsible school(s) or person(s) incl. deadlines |
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| <p>After the first tests of yesterday, that haven't been going that well, we have been looking for the mistake, and found the in our eyes most important mistake: a bearing holder was mounted the wrong way so that we had a lot more friction than normal. The distance discs had to be replaced and the bearing holders were turned around.</p> <p>After this we tested it again, but the friction problem was still not solved, as soon as the loco turned into a turn the friction got as bad that the loco stopped. Some were assuming that 1 mm space between the wheels and the tracks were not enough. After this the Luxembourgish delegation milled off some material to get more space between the tracks and the wheels.</p> <p>New problem: the rear drive from the snail wheel to the gear of the wheels had too much friction cause of a too tight assembling, with no air to turn the wheels without friction in the “gearbox”. Also this problem has been solved by milling 0,3 mm off the wheel holders.</p> <p>Now after this, we had to drill and cut threads into some distance discs that we had to spare to fix the axles from the wheels. This was also done by the Luxembourgish delegation.</p> <p>This couldn't still fix the problem. The loco had no problems now to drive counter clockwise, but clockwise it just jammed again.</p> | |

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| <p>This problem however could be solved by using plastic gears in combination to the snail wheels that were chamfered at the edges.</p> <p>After this modification the loco could run both ways, without any friction anymore and the loco got tested with pulling some weight, and this successfully without too much energy afford from the motor.</p> <p>At the end, the Loco 3 was running without any further problems.</p> | |

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| Meeting Description | Fifth meeting St Pölten Austria |
| Meeting hosted by | Höhere Technische Bundeslehr- und Versuchsanstalt |

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| Date / Time / Place | Friday 1st of February 2013 Room MW P403-1 |
| Name of Workline | Workline A – Locomotive |
| Name of Workgroup | Loco 3 |

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| Representative workgroup member | [LU] Jean-Jacques Zeimes |
| Co-representative workgroup member | [DK] Flemming Grønberg |
| Co-representative workgroup member | [FIN] Kari Heiskanen |

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| Further workgroup members | [IT] Roberto Nagma |
| | [IT] Gostalolo Brac Ilobio |
| | [HR] Filip Noteko |
| | [FIN] Miko Niemelä |
| | [LU] Frunz Sadler |
| | [LU] Mil May |
| | [AT Ful] Matthias Höfer |
| [FI] Ilkka Ollikainen | |
| [HR] Tomislav Kasunko | |
| [HR] Gordana Eric | |

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| Minute written by | [FIN] Kari Heiskanen |
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| <p>Assembling the locomotive with all the parts brought to place found some lack and mistakes in produced parts</p> <p>End plates supporting the main axle the roundings were missing, So the covers wouldn't fit in place. Problem was solved in a work shop these roundings were changed to the chamfers which were milled in a place.</p> <p>Center plates supporting the main axle were assembled then found out that there were missing four holes which should fit to the weights assembled over them to raise the weight of the locomotive</p> <p>At the same time were the videos making the parts watched and switched among the participants.</p> <p>All the parts were assembled together the function of the loco were tested after that locomotive were taken to basement for the track test.</p> <p>In a track test found out that the wheel and the gearbox was little too narrow so after disassembling the locomotive the height of the gearbox 1.3 mm.</p> | |

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| <p>The wheel distance was 2 mm too wide compared the lack which we need on tracks so in the roundings of the tracks the locomotive almost stuck in the tracks we decided to narrow the wheel distance that mentioned 2 mm</p> <p>On the end of the test were main axle kind of cut of so the locomotive were taken of the track and taken back to workshop cause the lack of time the disassembling decided to do in a next day</p> | |