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| Short Report |

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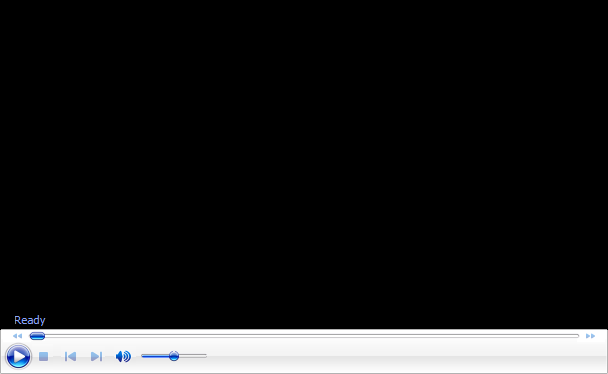
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| Summary |

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| Summary This short report will summarize the two internal simulators which are trucking inspection and heavy equipment-backhoe. Summarizing my findings and the problems that I and my partner Ail have ran into. Trucking Inspection: Trucking Inspection sim allow students to do pre-inspection on a truck,  Inspect:   * Engine compartment * Truck exterior * Trucking interior * Wheels/Tires * Trailer and its components   Overall Impression: My overview of the trucking inspection is it’s good but needs some improvement before its ships. Getting to inspect this machine got me invested in learning more about trucking general and I enjoy the process of inspecting the truck and I felt very immersive but that flow breaks when sim:   * Randomly crashes * Slow down on chrome * Can’t inspect individual parts in 360 view, camera system needs to be improved * Can’t walkaround the truck freely   More of the problems are elaborate in the review video and on my confluence page. Once these problems are addressed, this sim is ready to go. |

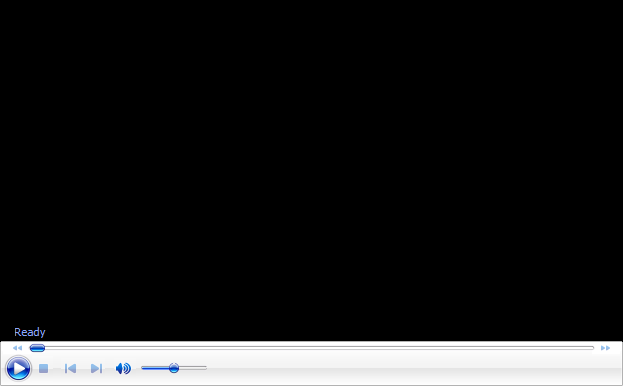
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| Trucking Inspection Review Videos |

Trucking Inspection Review Part 1 (Disclaimer the audio of the sim does work so in teams so ignore my comment in the video that states the opposite, I forgot hit record computer sound in teams).

Trucking Inspection Review Part 2 (same disclaimer applies to part 1 to part 3 and the car mechanic simulator video):



Trucking Inspection Review Part 3:



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| Backhoe Inspection |

Backhoe Inspection:

Backhoe Inspection sim allow students to do pre-inspection on a backhoe,

Inspect:

* Vehicle exterior
* Cab interior/exterior
* Engine and fluid
* Loader bucket
* Backhoe End

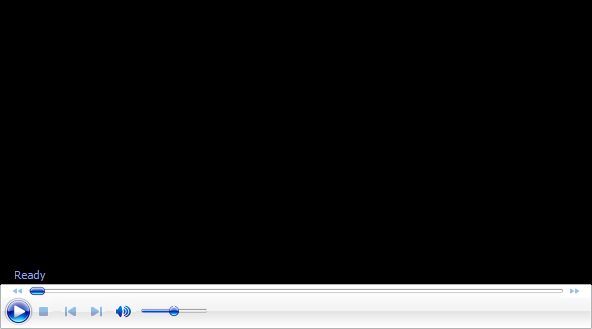
Overall Impression: Overall, my impression of the heavy equipment backhoe sim is pretty good; I enjoyed testing the sim. Getting to inspect this machine got me invested in learning more about the backhoe, and I felt like I was inspecting a backhoe, that's how much I was immersed in the process.

These are the problems I ran into:

* The sim runs into the same issues as trucking inspection sim where it runs slower on chrome than other web browsers
* When you paused the scenario there is no dedicated exit button
* Mouse input is sometimes slow and unresponsive
* Can not get a 360 view of the part that I’m inspecting

More of the problems are elaborate in the review video and on my confluence page. Once these problems are addressed, this sim is ready to go.

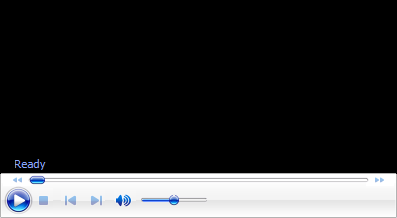
Backhoe Inspection Review: (same disclaimer from trucking inspection applies here to)



Conclusion: Both internal sims are great, but their respective problems need to be addressed. The common problems that I encountered in both sims are :

* Slow performance on chrome
* Can not walk around the vehicles free
* No 360 view on individual parts that I’m inspecting.
* Camera system needs to be improved

Once these problems are solved, I am fully confident these sims are ready go. I would look at Car Mechanic Simulator 2021’s camera system and use it to address the camera problems that plague both sims. Car Mechanic Simulator 2021 allows the player to walk round the vehicle freely and more importantly allows the player to have a 360 view on the individual parts their inspecting, here is video demonstration their camera system.



Here is link to my confluence page that has more information about testing the sims <https://varlab-dev.atlassian.net/l/cp/0bCEiwDL>.