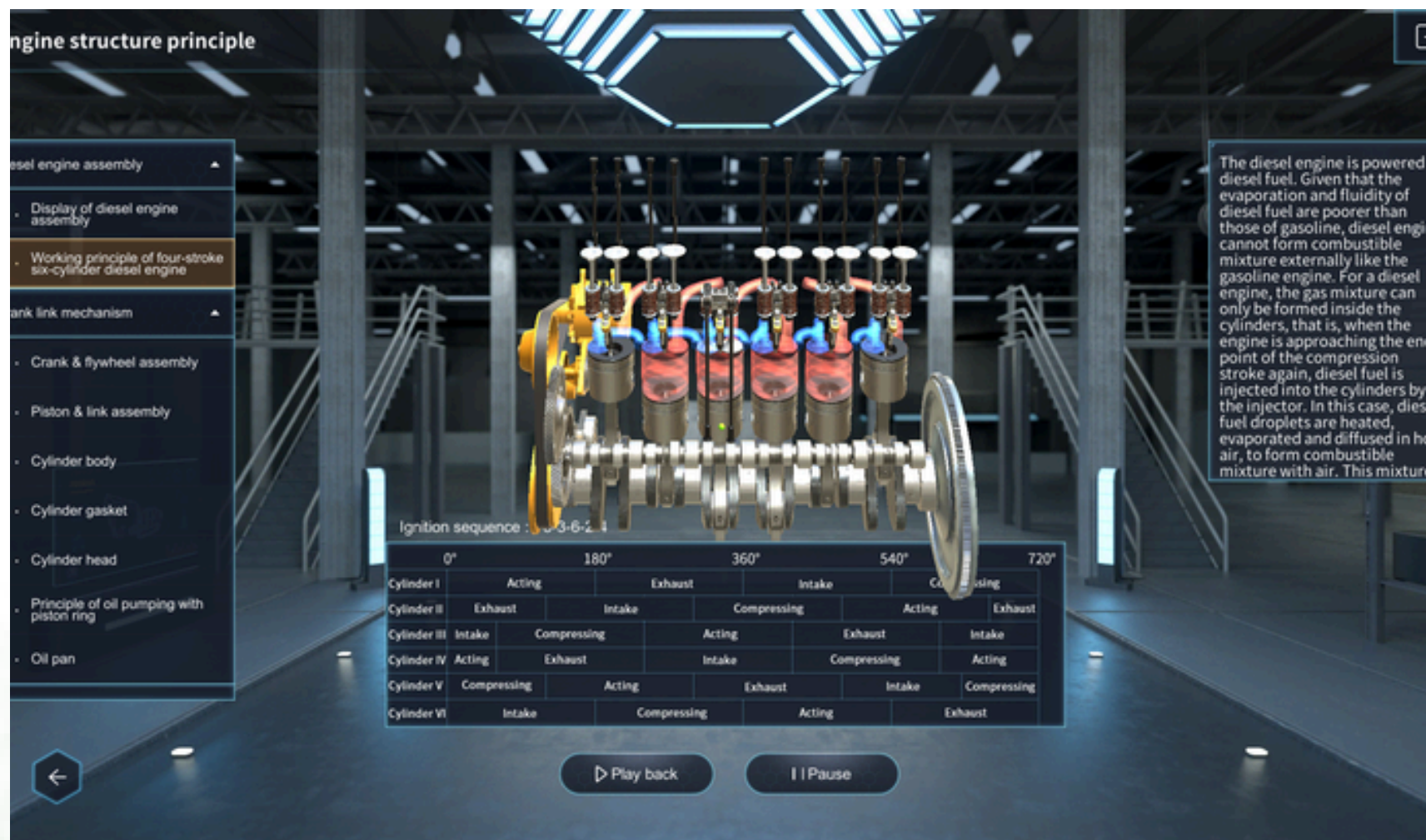


VR Software for Practical Training on Maintenance of Construction Machinery Engine

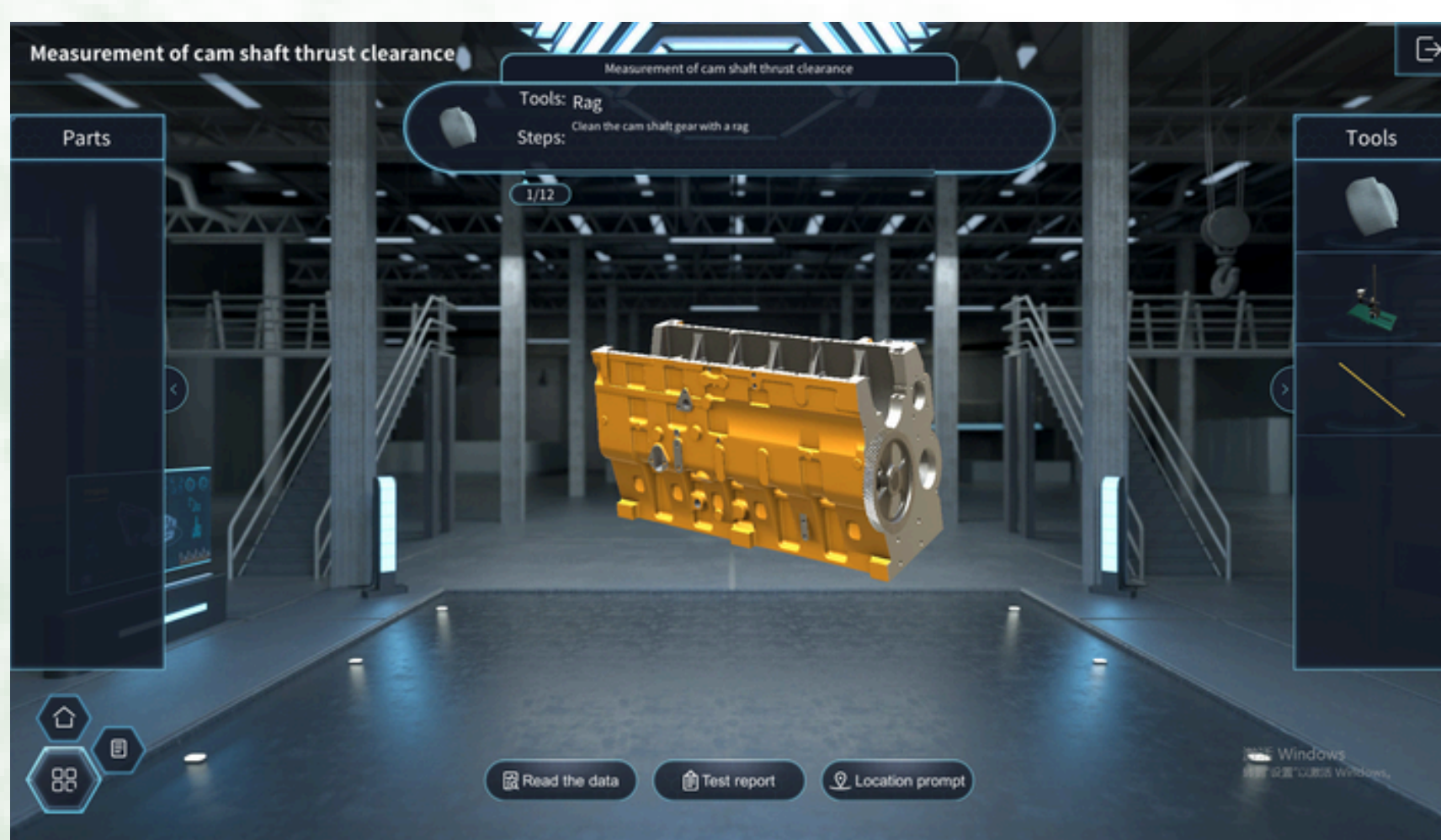
The VR Software for Practical Training on Maintenance of Construction Machinery Engine is a practical teaching product designed and developed for **vocational colleges** and **application-oriented undergraduate colleges** to assist in engineering machinery teaching. This software is based on the **Cummins 6CT engine** and is **modeled 1:1** according to the actual engine structure. The software adopts the most advanced VR virtual simulation technology, which simulates the principle demonstration of core components such as disassembly and assembly of **engineering machinery engines** and **engine measurement** through real data collection and university research.



Text description, model display, and principle animation of the construction machinery engine structure principle



Interactive training exercises on disassembly and assembly of construction machinery engine



Interactive training exercises for measurement of cam shaft thrust clearance



Interactive training exercises on excavator engine belt looseness leading to high engine coolant temperature and engine oil combustion caused by damaged loading oil ring

Highlights

- The software not only covers theoretical knowledge points found in professional materials but also includes practical training Works related to the disassembly and assembly of **wet-drive axles**, **dry axles**, and **manual transmissions**. This helps make the training phase of teaching more efficient.
- It strictly follows **standardized operating procedures** and the **repair manual processes** provided by manufacturers, ensuring the professionalism and standardization of teaching and training.
- The structural principle module allows for arbitrary dragging, free rotation, and scaling of the model; Clear and intuitive structure and principle analysis support operations such as **pausing**, **replaying**, and **model explosion**.
- Equipped with the leading **Desktop, All-In-One Virtual Holographic Interactive Desktop**, providing enhanced operational experience and advanced presentation effects.

Functionalities

Modules	Content
Structure Principle	Familiar with diesel engine assembly, crank connecting rod mechanism, valve mechanism, cooling system, etc.
Disassembly and assembly Training	Disassembly and Assembly of Engine.
Measurement Training	Measurement of cam shaft thrust clearance.
Fault Diagnosis	The loosening of the excavator engine belt leads to high engine coolant temperature, etc.