

Independent of Four Ball Tester

Shear Stability Tester (KRL)

The Ducom Shear Stability Tester (KRL) is used to determine an oil's resistance to viscosity loss due to shearing. Kinematic viscosity loss is investigated as per CEC L-45-99, where the test oil is sheared using a bearing pot with a tapered roller bearing.

Ducom KRL shear stability tester uses a tapered roller bearing to shear the oils and degrades the viscosity index improves in compliance with CEC L-45-99. Additional capabilities include a fast response temperature sensor and friction force sensor that allow simultaneous measurement of shearing induced heating, thermal response, and frictional torque that are important metrics for thermal and frictional properties of fluids.

Fully
Compliant

Test Standard:
CEC L-45-99



FUNCTIONAL FEATURES

- Compact, table top and fully automated.
- The pneumatic loading uses compressed air and bellow system instead of dead weights to makes testing quicker, easier and safer.
- Although not prescribed by the standards, measuring friction is a useful addition that will help understanding the tested oils.
- MOOHA is a digital lab assistant with powerful features that can help with keeping your tester in excellent health and your test data secure and easily accessible. Its automatic logging and reporting functions keep data tamper proof and reliable. Learn more at www.ducom.com/digital
- Machine learning algorithm for automated wear scar prediction.

Speed	0 to 1,500 rpm
Normal Load	500 to 5,000 N
Friction Force	0 to 100 N
Temperature	Ambient to 60 °C
Test oil quantity	40 ml
Taper test rolling bearing	SKF 32008X
Test Standard:	
CEC L-45-99	



Tapered roller bearing



Bearing pot