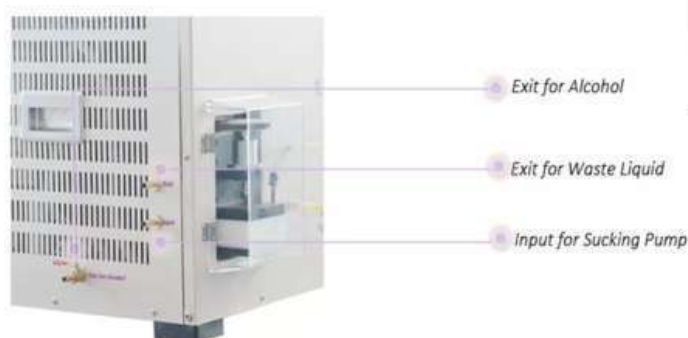




Cold Cranking Simulator AWD-310



Main Technology Parameters

No.	Technical Indicator	Description
1	Power	AC220/230V±20% 50Hz (Can be changed to your country request)
2	Input Power	<2.50 KW
3	Humidity of Environment	<85%
4	Temperature of Environment	10°C~40°C
5	Test Temperature	-35°C to -5°C
6	Test Range of Viscosity	1500 ~ 27000 mPa.s
7	Temp. Control Accuracy of Stator	±0.02°C
8	Temp. Control Accuracy of Cold Bath	±0.1°C
9	Range of Temperature	Room Temp. To -60°C
10	Characteristics	◆ Digital Temperature Control ◆ Thermoelectric Cooled Simulator Mechanism and Re-circulating Cooler ◆ Easy to Operation, fully automatically ◆ Conform to International Standard GB/T6538-2010, ASTM D5293 and SAE J300 ◆ Integral CCS Series II Controller with Micro Computer + Printer.

• Standard Accessories

No.	Description	Note	Unit	Qty
1	Certification & Operation Video		Copy	1 Each
2	Main Part		Set	1
3	Fuse		Piece	2
4	Power Line		Piece	1
5	Collection Bottle of Waste Liquid		Piece	1
6	Funnel for Alcohol		Piece	1
7	Standard Oils		Bottle	6
8	Bottle for Cleaning		Piece	1
9	Syringe	5ml	Piece	10
10	Silicone Tube		Piece	1
11	Ball for Washing		Piece	1

• Packing Information

CCS MODEL	Dimension (L×W×H) (mm)	Net Weight (Kg)	Gross Weight (Kg)	Materials of Package
AWD-310	1060×810×970	150	190	Treated Wooden Package

Note :

Due to keeping innovation, the specification and Machine pictures or color are subject to alteration without notice!



Cold Cranking Simulator AWD-310

• Overview

Our Cold Cranking Simulator (CCS) complies with International Standard such as GB/T6538-2010, ASTM D5293 and SAE J300. It is suitable for testing the low-temperature dynamic viscosity index of engine oil. The instrument can measure the apparent viscosity of oil at a temperature of -35°C to -5°C with an interval of 5°C. It has the advantages of accurate measurement, good repeatability, stable performance and simple operation.

It is suitable for measuring the apparent viscosity of engine oil at a shear stress of about 500 to 20000 mPa.s and a shear rate of 105 to 104 S-1 at -5°C to -30°C. The instrument equipped with a set of CL Viscosity Standards, fully automatic temperature control equipment, waste receiver and also equipped with 30-Position X/Y Sample Tray. users only need to operate on the color touch screen to quickly and easily perform testing and analysis.

TABLE 1 Calibration Oils

	Calibration Oil Approximate ^A Viscosity in mPa.s at:					
	-5°C	-10°C	-15°C	-20°C	-25°C	-30°C
CL-10	---	---	---	---	---	1 700
CL-12	---	---	---	---	800	3 200
CL-14	---	---	---	---	1 600	7 000 ^C
CL-16	---	---	---	---	2 500	11 000
CL-19	---	---	---	1 800	3 500 ^B	17 000
CL-22	---	---	1 300	2 500	5 100	---
CL-25	---	---	1 800	3 500 ^B	7 400 ^C	---
CL-28	---	1 200	2 500	5 000	9 300	---
CL-32	---	1 800	3 500 ^B	7 300 ^C	15 900	---
CL-38	---	2 900	5 800 ^C	13 000	---	---
CL-48	2300	4 500 ^B	9 500	21 000	---	---
CL-60	3700	7 400 ^C	15 600	---	---	---
CL-74	6000 ^B	12 000	---	---	---	---

^AConsult supplier for specific values.

^BOil to be used for calibration checks with CCS-2B or CCS-4 or 5 with software version 3.x or 5.x.

^COil to be used for calibration checks with CCS-4 or 5 software versions 4.x or 6.x.

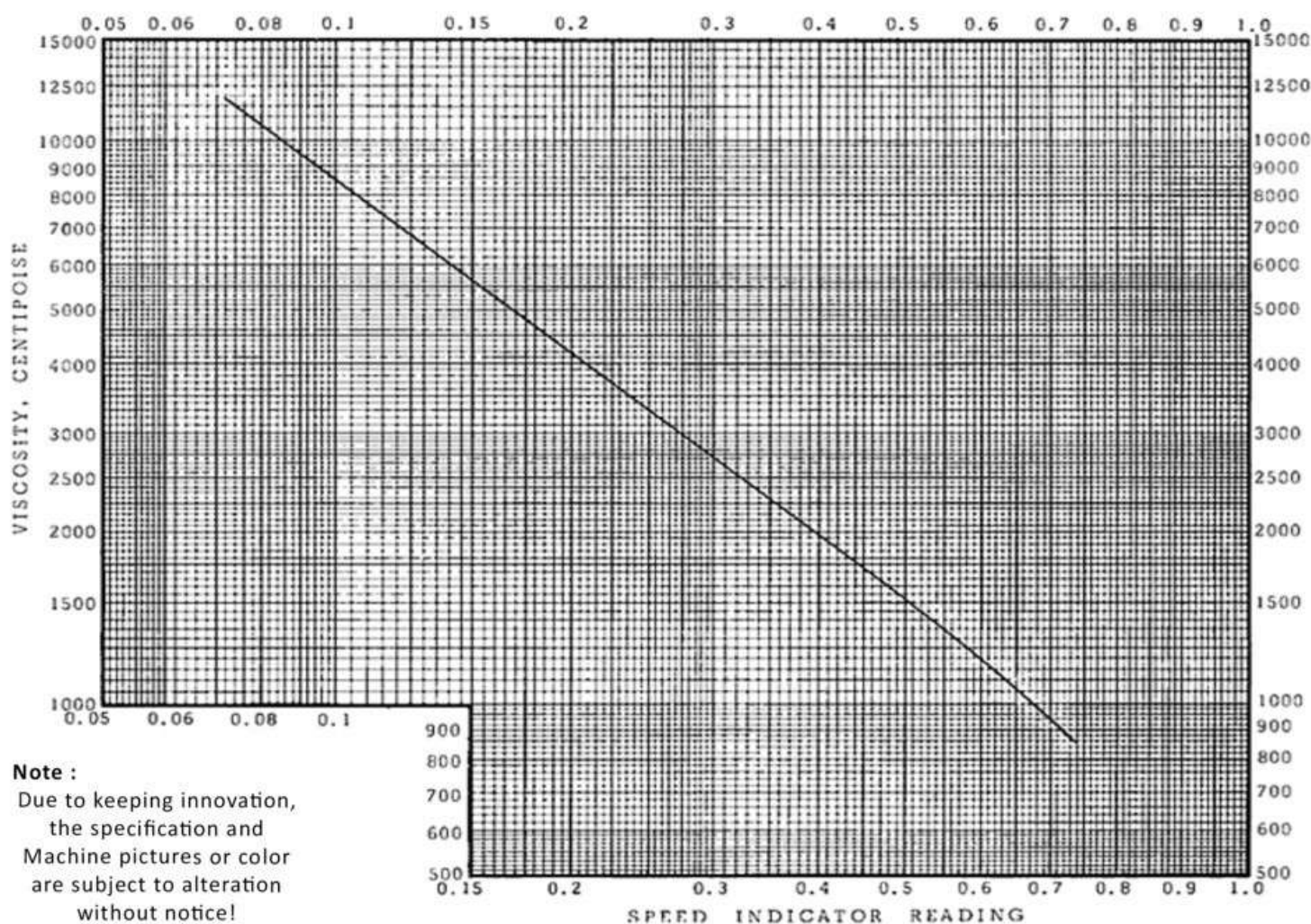


FIG. 4 Linearized Calibration Chart, Cold Cranking Simulator