TORONTECH

OCTOBER, 2026

NEWSLETTER



PETROLEUM & FUEL QC:
FOUR QUESTIONS, FOUR TESTS.

Ignition quality, cold flow, cranking viscosity, and flash point for fuels and lubricants.

October 2026 – A petroleum product can clear every number on its certificate of analysis and still fail where it is used: a fuel that gels in the tank at the first hard frost, an engine oil too thick for a starter motor at -30°C. Passing one test says little about the next, because every product fails in its own way.

Which test matters depends on what is in the tank or the drum. Ignition quality matters for gasoline and diesel, cold flow for fuels and lubricants alike, cranking viscosity for engine oil, and flash point for any liquid that has to be stored and shipped safely.

Torontech's petroleum testing lineup puts a dedicated instrument behind each of those questions, so a lab buys the tests its products actually need.

PRODUCT HIGHLIGHTS

Portable Octane and Cetane Tester — Ignition Quality

Measures how cleanly a fuel burns — octane for gasoline, cetane for diesel — so a batch won't knock under load or hesitate to ignite.



Features/Advantages:

- **Gasoline and Diesel in One Unit:** Octane and Cetane modes, plus methanol-gasoline, ethanol-gasoline, and biodiesel modes.
- **Standard-oil Correction:** One-, two-, and three-point calibration against standard oil adjusts for system error.
- **Built for The Field:** Vibration- and EMI-resistant body with a portable case, rated for -5°C to +30°C ambient.
- **Reports on The Spot:** Stores results and prints through a connected micro printer.

Fully Automatic Pour and Cloud Point Tester — Cold Flow

Measures the lowest temperature a fuel or lubricant still flows, from first wax crystals (cloud point) to total flow cutoff (pour point).



Features/Advantages:

- **Cooling to -80°C:** Integrated refrigeration, so no external chiller is needed on the bench.
- **Both Points, One Cycle:** Cloud point and pour point from a single 45 mL sample at 0.1°C resolution.
- **Operator-Independent Calls:** Optical detection, a Pt-100 probe, and automatic tube lifting and rotation.
- **LIMS-Ready:** LAN and USB ports, 8 GB of internal storage, and network-printer support.

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Automated CCS Cold Cranking Simulator

Cranking Viscosity

Measures oil viscosity at cold-start temperatures to confirm the starter can turn the engine over — and sets the oil's winter (W) grade.



Features/Advantages:

- **Three Models, One Method:** TT-CCS-I, II, and III cover -5°C to -35°C; the TT-CCS-III has an optional -40°C range.
- **Wide Viscosity Range:** 1,500 to 15,000 cP, extending to 25,000 cP on the TT-CCS-II.
- **Automated Cycle:** Calibration curves and viscosity readout run automatically; the II and III add automatic cleaning.
- **Throughput Option:** The TT-CCS-III processes up to 16 tubes with ±0.02°C temperature control.

Automatic Pensky-Martens Closed Cup Flash Point Tester

Flash Point

Determines the lowest temperature at which a fuel or oil's vapor will ignite, the number that drives hazard classification and shipping rules.



Features/Advantages:

- **Walk-Away Operation:** A touchscreen sequence handles cup lifting, heating, ignition, and flash-point judgment.
- **Quick-Detect Mode:** Finds the approximate flash point of an unknown sample to shorten the full test.
- **Pressure-Corrected:** Atmospheric pressure is detected and corrected automatically; electric or gas ignition.
- **Built-in Safeguards:** Gas shut-off on power loss, programmable temperature limits, and an optional nitrogen distinguisher.

Did You Know?

The **"W"** in an oil grade like 5W-30 **stands for winter**, and the number in front of it is **set by a lab test**, not a label claim.

For a 0W oil, SAE J300 caps cold-cranking viscosity at **6,200 mPa·s** at **-35°C**, measured on a cold cranking simulator, the same type of instrument as the **TT-CCS series.**



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Which Torontech Test Matches Your Product?

BEST FOR	RECOMMENDED MODEL	WHY THIS IS THE BEST FIT
Gasoline or diesel that needs an ignition-quality check at a terminal, depot, or field site	**TT-131**	Reads octane and cetane in a portable, non-destructive unit, with separate modes for ethanol, methanol, and biodiesel blends.
Diesel, heating oil, jet fuel, biofuel, or lubricant that has to keep flowing in cold weather.	**TT-9725**	Reports cloud point and pour point in one cycle down to -80°C without a chiller, to ASTM D97, ASTM D2500, and ISO 3016.
Engine oil that has to earn a winter (W) grade.	**TT-CCS Series**	Measures apparent viscosity from -5°C to -35°C under ASTM D5293, in three models that scale with sample volume.
Viscous fuel oil, lubricant, or any sample with suspended solids or a surface film.	**TT-93Z**	Closed-cup flash point from 40 to 360°C to ASTM D93 Procedures A, B, and C, with automatic pressure correction.

Why Choose Torontech for Your Petroleum and Fuel QC?

One Supplier for the Panel:
Ignition quality, cold flow, cranking viscosity, and flash point from a single source, with one support contact across instruments.

Field and Bench Formats:
A portable octane/cetane tester for terminals and depots, and automated bench instruments for the QC lab.

Scales With Throughput:
From single-sample units to the 16-tube TT-CCS-III, with LAN and LIMS connectivity on the cold-flow tester.

Standards-Aligned:
Bench instruments built around ASTM and ISO methods that refiners, blenders, and regulators already call for.

Not sure which of these your products need? Send us the product list.

Torontech's petroleum testing lineup covers ignition quality, cold flow, cranking viscosity, and flash point. Explore the full lineup: https://www.torontech.com/category/petrochemical-testing-equipment/

For help choosing the right instruments for your products: sales@torontech.com

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