



# U.S. Army Petroleum Laboratory

The Army Petroleum Laboratory (APL) is a tenant organization at the Defense Depot Susquehanna. APL provides quality surveillance testing of bulk fuels including jet fuel, aviation (AV) gas, automotive gasoline, diesel fuel, burner fuel, kerosene, E-85 and bio-diesels in accordance with Military Standard (MIL-STD) 3004. APL is DOD certified to extend the shelf life of packaged petroleum products and chemicals. The lab also conducts first-article testing. Products tested include lubricating oils and greases, hydraulic fluids, brake fluids, gear oils, engine coolants and select chemicals.

APL tests approximately 10,000 petroleum samples for the military, in addition to over 18,000 tests for over 500 customers, including aviation and ground customers, CONUS and OCONUS.

**Purpose:** Provide efficient quality surveillance of U.S. Government owned petroleum products worldwide and quality customer support to all our customers.

## Technical Authority:

- Responsible for quality surveillance testing mission for Army petroleum products per AR710-2 and DA-PAM-710-2
- Laboratory certified by the DOD Shelf Life Program to test package POL. Certified to test multiple Petroleum, Oil and Lubricant items in Federal Supply classes 9150/6850/6810
- ONLY Army fuel laboratory capable to test at a full B-2 level of testing which is required to ensure the product is not deteriorating due to age, environmental or storage conditions.

## Benefits:

- Quick testing turnaround
- Cost-effective, continuous tests
- Skilled lab associates operating equipment
- Single-point testing to easily send samples
- Test results are maintained electronically



Filter Effectiveness Testing



Bulk Petroleum Testing



Accredited to perform 51 ASTM test methods on fuel and packaged petroleum products

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Fuels Laboratory

## Testing Categories

- Quality Surveillance of bulk petroleum products/fuels
  - Includes performing filter effectiveness tests to check filter separators efficiency on Army owned equipment
- Petroleum Shelf Life Extension for DOD Owned packaged products:
  - Installation owned and war reserve product
  - Random testing on manufacturers first lot runs

## Quality Surveillance Program

- Ensures quality of the product supplied from commercial sources to the Army activities and the Army National Guard
- Maintains quality of Army owned petroleum products used in equipment such as tanks, trucks, HMMWVs, MRAPS, tactical and non-tactical, equipment, etc.
- Assists with crash investigations
- Assists with laboratory certification and correlation programs of fixed and deployable Army petroleum laboratories
- Evaluates products for new EPA requirements
- Evaluates the day to day operational issues associated with POL products

The Army Petroleum Laboratory maintains unique capabilities within the **U.S. Army CCDC GVSC's Force Projection Technology** team, whose mission is to provide equipment lifecycle engineering support for the missions of gap crossing, petroleum and water systems, combat engineering, material handling and fluid quality surveillance.

## FOR FURTHER INFORMATION:

**U.S. ARMY COMBAT CAPABILITIES  
DEVELOPMENT COMMAND — GROUND VEHICLE  
SYSTEMS CENTER:**

<https://tardec.army.mil/>

## Contact Information:

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