STATEMENT OF WORK

For

Automated Viscosity Instrument -40°C

26 January 2026

AFPET

1. **BACKGROUND:** The Air Force Petroleum Agency's Aerospace Fuels Laboratory at Wright-Patterson Air Force Base (AFPET/PTPLA) provides laboratory quality surveillance and investigative analytical support of flight critical products directly related to the warfighter operations on behalf of all Air Force and other DoD agencies, as well as commercial entities. AFPET/PTPLA has a vision to create a flexible, dynamic center of excellence that is responsive to customers and strategically positioned and focused to contingency and warfighter operations. We provide warfighters specialized testing services and capabilities in petroleum, propellants, cryogenics, chemicals and gases for all aerospace vehicles, systems, and equipment.

2. **SCOPE OF WORK:** AFPET/PTPLA is seeking to purchase one (1) -40°C Automated Viscosity Instrument unit to run testing per ASTM D445 and D2532 to determine low temperature viscosity in hydraulic and coolant fluid products in accordance with this Statement of Work (SOW).

3. **TECHNICAL REQUIREMENTS**: This document covers the purchase, warranty, shipping of one (1) Automatic viscosity instrument that can perform kinematic viscosity testing per ASTM D445 at -40°C.

Applicable Documents: A copy of ASTM D445 and D2532 may be obtained by writing ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959; by telephone at 610-832-9255; by e-mail at service@astm.org; or through the ASTM website at www.astm.org.

3.1. ***Requirements/Salient Characteristics:*** The automatic viscosity instrument must possess the following features:

3.1.1. This instrument(s) must fully comply with ASTM D445, "Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity)".

3.1.2. ASTM D2532 "Standard Test Method for Viscosity and Viscosity Change After Standing at Low Temperature of Aircraft Turbine Lubricants"

3.1.3. Capable of maintaining testing temperatures at -20°C and -40°C with an accuracy of +/- 0.05°C

3.1.4. Thermometer able to be taken out and calibrated separately

3.1.5. Operate on power requirements of 110-120 V, 50-60 Hz.

3.1.6. Be a benchtop instrument not to exceed 32 in (W) x 26 in (D)

3.1.7. Be delivered with all necessary accessories for operation down to testing temperature of -40°C.

3.1.8. Due to the technical nature of the requested product, vendors must demonstrate they directly employ staff qualified to install, provide training, and troubleshoot this requirement onsite at the location or locations listed in section 4 of this document.

4. *Delivery, Installation, and Lead Time:*

The Contractor shall deliver and send a qualified technician onsite to install the product within 12 weeks after contract award to the following address:

SHIP TO DoDAAC: FP2070
Aerospace Fuels Laboratory (FP2070)
AFPET/PTPLA
2430 C Street Bldg 70 Area B
Wright Patterson AFB OH 45433-7632

A delivery/installation Point of Contact (POC) will be identified in the schedule of the final awarded contract who will be responsible for coordinating delivery, installation, and training.

5. SHIPPING: Contractor shall ensure all pieces are fully operational and in good, working condition before shipping to 88th SFS. Contractor will securely package and ensure shipment

6. WARRANTY: The product shall be free from defects in material and workmanship upon delivery. A warranty shall be honored by the Contractor for all items delivered for this requirement for at least one (1) year after receipt under normal and proper use in accordance with the user manual.

7. QUALIFYING COUNTRY PRODUCTS: All products delivered to satisfy these requirements shall be manufactured in a qualifying country source in accordance with Defense Federal Acquisition Regulation Supplement (DFARS) 225.872. Products from other than qualifying countries will not be accepted, and any costs associated with products from other than qualifying countries, including shipping, etc., shall be at the contractor's expense.

8. INVOICE AND PAYMENT: The contractor shall be paid upon submission of a properly prepared invoice and after final inspection and acceptance has been made. A proper invoice shall cite the contractor's name and address, invoice number, invoice date, order number, contract line-item number (CLIN), description of the supplies or service, unit of issue, unit price and extended price, terms of any prompt payment discount offered, and who to notify in the event that the invoice is defective. The invoice shall be submitted to the Wide Area Workflow (WAWF) in accordance with the terms of the final contract award.

9. DELIVERY PROCEDURES COMMERCIAL VEHICLES:

9.1. All vehicles larger than a large pick-up truck are required to be inspected by the Wright-Patterson Air Force Base Commercial Vehicle Delivery Gate (CVDG) prior to entering the installation. Vehicles to be inspected include, but are not limited to, the following:

9.1.1. Step van/panel truck
9.1.2. Tractor/trailer, box and flatbed containing cargo
9.1.3. Tanker trucks
9.1.4. Box truck
9.1.5. Tour buses
9.1.6. Garbage/recycled waste trucks
9.1.7. Concrete trucks/mixers, dump trucks
9.1.8. Cranes, recreational vehicles, petroleum tanker

This inspection will be conducted at Wright-Patterson AFB Gate 26A.

9.2. The following are exemptions to vehicles utilizing the CVDG:

9.2.1. If the vehicle has the product inside (concrete and asphalt trucks) and timely delivery is necessary due to product deterioration it does not need to enter the CVDG. To bypass the CVDG, the contractor shall submit a list containing drivers' names, social security numbers and the state in which the driver's license is held for those drivers who will be entering the base. This shall be accomplished 24 hours prior to requested entry time. If entry is requested on Monday, this list shall be submitted by Friday at 1630 hours. All lists shall be submitted to the 88th ABW/CE Directorate contract inspector. The only gates that may be used under this exemption shall be 15A, 26A, 38A, and gate 1B. If the driver's name is not on the list, he/she will not be allowed access to the installation through these gates and the base will not assume liability for denied access.

9.2.2. If a delivery vehicle must exit, and then re-enter the base to complete its route, the vehicle shall be resealed upon exiting the base. After initially passing through the commercial vehicle delivery gate, trucks shall be resealed at Gates 15A, 38A and 22B. The resealing of the trucks will allow them to continue to any other area of the installation (Areas A, B, or Kittyhawk) without reprocessing through the CVDG. To receive resealing assistance, the drivers shall physically stop at one of the three authorized gates and request the installation entry controller to reseal their truck and provide the next location of their delivery. The controller will reseal the truck and give the delivery driver a pre-clearance form. The driver shall present the pre-clearance form to the entry controller at the next point of installation entry. This reentry can be through any base gate.

9.3. Vehicles may be subject to an inspection at any of installation entry control points during a directed random antiterrorism measure (RAM). Any commercial vehicle, regardless of size, can be directed to the CVDG at the discretion of the installation entry controller.