



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

**Nordic Camp Supply
Herat Fuel Testing - B and C Tests**

**Camp Arena
Herat, Afghanistan**

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

while demonstrating technical competence in the field of

TESTING

Refer to the accompanying Scope of Accreditation for information regarding the types of tests to which this accreditation applies.

AT-2539.01

Certificate Number



ANAB Approval

Certificate Valid: 12/22/2017 – 12/22/2019
Version No. 001 Issued: 12/22/2017



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Nordic Camp Supply
Herat Fuel Testing - B and C Tests

Camp Arena
Herat, Afghanistan
Anders Kjelgaard
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TESTING

Valid to: December 22, 2019

Certificate Number: AT-2539.01

Chemical

Specific Tests and / or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Appearance (Clear & Bright)	Visual C&B	F34 AVTUR F54 Diesel MT Avgas F-18 and F-67 F35 AVTUR	Sampling Jar 3.5l with carry basket
Calculated Cetane Index	ASTM D976	F54 Diesel MT	Nomograph
CFPP Winter Grade °C	ASTM D6371	F54 Diesel MT	ISL CFPP
Color (Visual)	Visual	F34 AVTUR F54 Diesel MT Avgas F-18 and F-67 F35 AVTUR	Sampling Jar 3.5l with carry basket
Conductivity at °C (p/sm)	ASTM D2624	F34 AVTUR Avgas F-18 F35 AVTUR	EMCEE 1152 Digital Conductivity Meter
Copper Strip Corrosion (2hr at 100°C)	ASTM D130	F34 AVTUR Avgas F-18 F35 AVTUR	Petrotest copper corrosion test kit
Conidia Microbial test	ASTM D8070	F34 AVTUR F54 Diesel MT Avgas F-18 and F-67 F35 AVTUR	Conidia Kit



Chemical


Specific Tests and / or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Density at 15°C (Kg/m3)	ASTM D7777	F34 AVTUR F54 Diesel MT Avgas F-18 and F-67 F35 AVTUR	Anton Paar DMA 35n
Distillation: IBP	ASTM D86 ASTM D7345 ISO 3405	F34 AVTUR F54 Diesel MT Avgas F-18 and F-67 F35 AVTUR	Petrotest ADU 4 Distillation unit
Distillation: IBP (% Recovered at 180 °C)	ASTM D86 ASTM D7345	F54 Diesel MT	As above
Distillation: IBP (5 % to 95% Recovery at °C)	ASTM D86 ASTM D7345	F34 AVTUR F54 Diesel MT Avgas F-18 and F-67 F35 AVTUR	As above
Distillation: IBP (Sum of 10 % and 50 % Evaporated)	ASTM D86	Avgas F-18	Equation
Distillation: IBP (Final boiling point)	ASTM D86	F34 AVTUR F54 Diesel MT Avgas F-18 and F-67 F35 AVTUR	Petrotest ADU 4 Distillation unit
Distillation: IBP (Residue %)	ASTM D86	F34 AVTUR F54 Diesel MT Avgas F-18 and F-67 F35 AVTUR	As above
Distillation: IBP (Loss %)	ASTM D86	F34 AVTUR F54 Diesel MT Avgas F-18 and F-67 F35 AVTUR	As above
Existent gum (mg/100ml)	IP 540 ASTM D381	F34 AVTUR Avgas F-18, F35 AVTUR	Steam gums bath
Filtration Time	ASTM D5452	F34 AVTUR F35 AVTUR	Vacuum filtration kit
Flash point	IP 170 ASTM D3278	F34 AVTUR F54 Diesel MT F35 AVTUR	Petrotest PMA 4
Freezing point °C	ASTM D7153 ASTM D2386	F34 AVTUR Avgas F-18 F35 AVTUR	Petrotest Freeze Point Apparatus

Chemical

Specific Tests and / or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Fuel System Icing Inhibitor % volume (FSII) - (If added)	ASTM D5006	F34 AVTUR	Aljac FSII kit
Particulate contaminant	ASTM D5452	F34 AVTUR F35 AVTUR	More vehicle based – membranes from AC Searle
Water content, SWD	Pass/Fail	F34 AVTUR F54 Diesel MT Avgas F-18 and F-67 F35 AVTUR	Shell water detection capsules
Water reaction interface	ASTM D1094	F34 AVTUR Avgas F-18 F35 AVTUR	100ml stoppered cylinder & Buffer solution
Reid vapor pressure at 37.8 °C (kpa)	ASTM D5191 ASTM D323	Avgas F-18 and F-67	Seta unit

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-2359.01.



Vice President

