

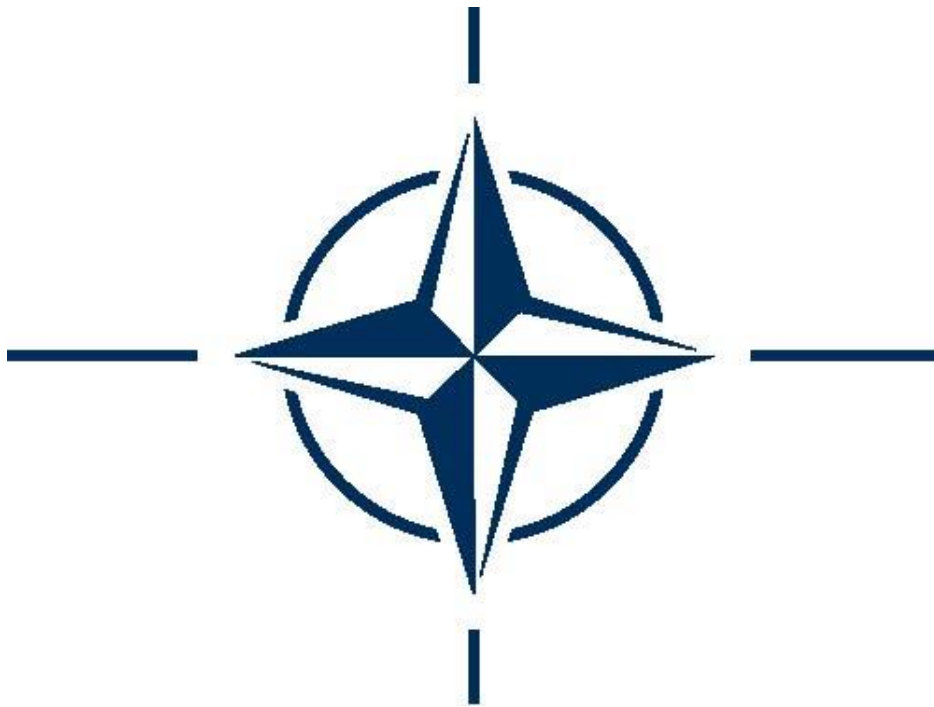
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STANDARDS RELATED DOCUMENT

SRD-4616

**CAPABILITIES OF
NATIONAL/MILITARY LABORATORIES
OF NATO AND PARTNER NATIONS**

**Edition A Version 1
AUGUST 2020**



NORTH ATLANTIC TREATY ORGANIZATION

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NORTH ATLANTIC TREATY ORGANIZATION (NATO)

NATO STANDARDIZATION OFFICE (NSO)

NATO LETTER OF PROMULGATION

28 August 2020

1. The enclosed Standards Related Document, SRD-4616, Edition A, Version 1, CAPABILITIES OF NATIONAL/MILITARY LABORATORIES OF NATO AND PARTNER NATIONS, which has been approved in conjunction with AFLP-3149, AFLP-4714 and AFLP-7017 by the nations in the PETROLEUM COMMITTEE, is promulgated herewith.
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Deputy Director NSO
Branch Head P&C

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Brigadier General, HUNAF
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SECTION 1 GENERAL

0101. SRD-4616 Edition A, Version 1 provides information on the capabilities of National/Military Laboratories of the NATO and Partner nations.

0102. Additional Laboratory resources can also be found in the latest version of STANAG 7017/AFLP-7017 – Spectrometric Analysis of Aircraft Engine Lubricants.

0103. SRD-4616 is further linked to STANAG 3149/AFLP-3149 – Minimum Quality Surveillance for Fuels and STANAG 4714/AFLP-4714 – Minimum Quality Surveillance for Lubricants and Associated Products

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SECTION 2 SUMMARY OF LABORATORY TESTING CAPABILITIES

NATION	Location	Jet	Diesel	Gasoline	Lubricant	Accreditation	Cross-Check	Deployable
Belgium	Peutie	A (-)	A (-)	A (-)	YES	YES	YES	YES
Bulgaria	Sofia	B2 (-)	B2	B1 (-)	NO	NO	NO	NO
Canada	Ottawa	A	A	A	YES	In Progress	YES	NO
	Lasalle	NA	NA	NA	YES	YES	YES	NO
Czech Rep.	Prague	A	A	A	YES	NO	YES	YES
Denmark	Vaerloese	A	A	A	YES	NO	YES	NO
France	Marseille	A	A	A	YES	YES	YES	YES
Germany	Erding	A	A	B2	YES	YES	YES	YES
Greece	Elefsina	B2(-)	B1(-)	B1(-)	YES	NO	NO	NO
	Eleftherio	B2	B2	B2	NO	NO	YES	YES
	Souda	B1(-)	B1(-)	B1(-)	NO	NO	NO	NO
	Andravida	B1	B1(-)	B1(-)	NO	NO	NO	NO
	Skaramagas	B2(-)	B2(-)	C	YES	NO	NO	NO
	Souda	B2(+)	B2(+)	B2(-)	NO	NO	NO	NO
Hungary	Pusztavacs	B1	B1	B1	NO	YES	YES	YES
Italy	Fiumicino	A	NA	NA	NO	YES	YES	YES
	Bari - Mungivacca	A	NA	NA	YES	NO	YES	NO
	Verona- Villafranca	A	NA	NA	NO	IN PROGRESS	YES	YES
	Cagliari - Villasor	A(+)	NA	NA	NO	NO	YES	NO
	Trapani	A	NA	NA	NO	NO	YES	NO

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NATION	Location	Jet	Diesel	Gasoline	Lubricant	Accreditation	Cross-Check	Deployable
Netherlands	Den Helder	B2(-)	B2	NA	YES	YES	YES	NO
Norway	Kjeller	A(-)	B2(-)	NA	NO	YES	YES	NO
Poland	Debogorze	B2	B2	B2	YES	YES	YES	NO
	Wroclaw	NA	A	B2	YES	YES	YES	NO
	Bydgoszcz	A	A	A	YES	YES	YES	NO
	Poznan	A	A	B2	YES	YES	YES	NO
	Lisboa	B1	B1	B1	YES	YES	NO	NO
	Almada	NA	B2	NA	YES	NO	NO	NO
Slovakia	Žilina	A	A	A	YES	YES	YES	NO
Spain	Madrid	B1(±)	B1(+)	B1	YES	YES	YES	NO
	Colmenar Viejo	B2	NA	NA	NO	NO	NO	NO
	Almagro	C	NA	NA	NO	NO	NO	NO
	Bétera	C	NA	NA	NO	NO	NO	NO
	Agoncillo	C	NA	NA	NO	NO	NO	NO
	Dos Hermanas	C	NA	NA	NO	NO	NO	NO
	Melilla	C	NA	NA	NO	NO	NO	NO
	La Laguna	C	NA	NA	NO	NO	NO	NO
	San Gregorio	C	NA	NA	NO	NO	NO	NO
	Cartagena	B1(-)	B1(-)	B1(-)	YES	NO	NO	NO
	El Ferrol	B1	B1	B1	YES	NO	NO	NO
	Las Palmas	NA	B1	NA	YES	NO	NO	NO
	San Fernando	B2 (-)	B2(-)	B2(-)	YES	NO	YES	NO

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NATION	Location	Jet	Diesel	Gasoline	Lubricant	Accreditation	Cross-Check	Deployable
Spain	Albacete	B1	B2(-)	B2	NO	NO	YES	NO
	Alcantarilla	B1	B2(-)	B2	NO	NO	YES	NO
	Armillá	B1	B2(-)	B2	NO	NO	YES	NO
	Cuatro Vientos	B1(+)	B2(±)	B2	YES	NO	YES	YES
	Las Palmas – Gando	B1	B2(-)	B2	NO	NO	YES	NO
	Getafe	B1	B2(-)	B2	NO	NO	YES	NO
	San Bartolomé	B1	B2(-)	B2	NO	NO	YES	NO
	Virgen del Camino	B1	B2(-)	B2	NO	NO	YES	NO
	Málaga	B1	B2(-)	B2	NO	NO	YES	NO
	Salamanca	B1	B2(-)	B2	NO	NO	YES	NO
	Morón de la Frontera	B1	B2(-)	B2	NO	NO	YES	NO
	Pollensa	B1(-)	B2(-)	B2(-)	NO	NO	NO	NO
	San Javier	B1	B2(-)	B2	NO	NO	YES	NO
	Palma de Mallorca	B1	B2(-)	B2	NO	NO	YES	NO
	Talavera la Real	B1	B2(-)	B2	NO	NO	YES	NO
	Torrejón de Ardoz	B1	B2(-)	B2	NO	NO	YES	NO
	Villanubla	B1	B2(-)	B2	NO	NO	YES	NO
	Zaragoza	B1	B2(-)	B2	NO	NO	YES	NO
	Torrejón de Ardoz	A	A(-)	A	YES	NO	YES	NO
Switzerland	Schlieren	A(+)	A(-)	A(-)	YES	YES	YES	NO
Turkey	Ankara	B2	B2	B2	YES	YES	YES	NO

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NATION	Location	Jet	Diesel	Gasoline	Lubricant	Accreditation	Cross-Check	Deployable
United Kingdom	Westfalen	B2	B2	B2	YES	NO	NO	YES
	Farnborough	A	A	A(-)	YES	NO	YES	NO
United States	AFRL WPAFB, OH	A	B1	B2	YES	NO	NO	NO
	AFPA WPAFB, OH	A	B2(-)	B2(-)	YES	NO	YES	YES
	AFPA Okinawa, JA	A	B2(-)	B2(-)	NO	NO	YES	NO
	Mildenhall, UK	A	B2(-)	B2(-)	NO	NO	YES	NO
	USMC Multip. Sites	B1	B1	C	NO	NO	NO	YES
	Ft Richardson AK	B2	B2(-)	B2(-)	NO	NO	YES	NO
	Kaiserlautern GE	A	B2(-)	B2(-)	YES	NO	YES	NO
	Jacksonville, FL	B1	B1	NA	NO	NO	YES	NO
	Norfolk, VA	B2	B2	B1	YES	YES	YES	NO
	Patuxent River MD	A	A	NA	YES	NO	YES	NO
	Pearl Harbor, HI	B2	B2	B1(-)	YES	NO	YES	NO
	Puget Sound, WA	B2	B2	NA	YES	NO	YES	NO
	San Diego, CA	B2	B2	B1	YES	NO	YES	NO
	Rota Spain	B2	B2(-)	C	NO	NO	YES	NO
	Hachinohe, JA	B2	NA	NA	NO	NO	YES	NO
	Hakozaki, JA	A(-)	A(-)	B2(+)	YES	NO	YES	NO
	Sasebo, JA	B2	B2	B2	YES	NO	YES	NO

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NATION	Location	Jet	Diesel	Gasoline	Lubricant	Accreditation	Cross-Check	Deployable
United States	Guam	C(+)	C(+)	NA	NO	NO	YES	NO
	Diego Garcia	B2	B2	B2	YES	NO	YES	NO
	DLA Okinawa, JA	B2	B2	B2	YES	NO	YES	NO
	New Cumberland	B2	B2	B2	YES	NO	YES	NO
	FT Lee	B2	B2	B2	NO	NO	YES	NO
	Aberdeen	B1	B1	B1	YES	YES	YES	NO
	FT Hood	B1	B1	B1	NO	NO	YES	NO
	FT Rucker	B1	B1	B1	NO	NO	YES	NO
	Camp Leatherneck	B2(-)	B2	B2	NO	NO	YES	NO
	Tarin Kowt	B2(-)	B2	B2	NO	NO	YES	NO
	Pyeongtaek	A	B2	B2	NO	NO	YES	NO
NATO	France (CEPS)	A	B1(+)	B1(-)	NO	YES	YES	NO
	Belgium(CEPS)	A	NA	NA	NO	YES	YES	NO
	The Netherlands (CEPS)	A(-)	NA	NA	NO	YES	YES	NO
	Germany(CEPS)	A(+)	A(-)	B2(-)	NO	YES	YES	NO

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SECTION 3 DETAILED LABORATORY INFORMATION BY COUNTRY

BELGIUM

1. **Name of laboratory:** Defence Laboratories (DLD)/POL LAB
2. **Point of contact and address:** Kwartier Majoor Housiau, Martelarenstraat, 181
B-1800 PEUTIE, Belgium
Phone: (+32) (0)2 244 10472
: (+32) (0)2 244 10483
Email: karen.peters@mil.be
ruben.muyliaert@mil.be

3. Capabilities

- | | | |
|--|---------------|-----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests):
Except existent gum, lead | Testing level | B2 |
| b. <u>Diesel Fuel</u>
Comment (for tests):
Except CFPP, PAH, Cetane Number, Lubricity | Testing level | A |
| c. <u>Automotive Gasoline</u>
Comment (for tests):
Except Vapour Pressure, Oxidation Stability, Existent Gum | Testing level | B2 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** YES

5. **Participation in Inter-laboratory crosscheck program:** YES
IIS

6. **Deployable laboratory (field) capability** YES
Comment (which tests):
Naval Fuel (F-76): Density, Flash Point, Bacteriological Contamination
F-44: Conductivity, FSII, Density, Flash Point, Bacteriological Contamination, JFTOT

7. **Additional testing capability in the fixed laboratory**
FTIR, ICP, FZG, TGA-MS, ...
Tests on lubricating greases: a variety of corrosion and oxidation tests.

BULGARIA

1. **Name of laboratory:** Central Military Laboratory
2. **Point of contact and address:** 1 Lt. Kostadin Hristev
 Central Military Laboratory – Unit 24510
 1271 Sofia, Bulgaria
 Phone: (+359) (0) 2 838 0327
 Fax: (+359) (0) 2 938 2954
 Email: logcom@md.government.bg

3. Capabilities

- | | | | |
|----|---|---------------|--------|
| a. | <u>Aviation Turbine Fuels</u>
Comment (for tests):
Except Cu Strip Corrosion, Vapour Pressure,
Lead Content, FSII, Conductivity, Thermal Stability | Testing level | B2 (-) |
| b. | <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B2 |
| c. | <u>Automotive Gasoline</u>
Comment (for tests):
Except Vapor Pressure, Knock Rating | Testing level | B1 (-) |
| d. | <u>Lubricant B-2 testing capabilities</u>
Comment (for tests):
See para 7 | | NO |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** NO

6. **Deployable laboratory (field) capability** NO
 Comment (which tests):

7. **Additional testing capability in the fixed laboratory**
 Fuels: Lead Content in Automotive Gasoline only, Filtration and Ash in diesel,
 Total Sulfur Aviation Oils: Carbon Residue, Pour Point, Viscosity at 100oC and 54.4oC, Neutralization
 Number,
 Ash Aviation Greases: Penetration (worked), Dropping Point, Oil Separation.
 Ash Aviation Hydraulic Fluids: Flash Point, Pour Point, Viscosity at 40 oC, Neutralization Number,
 Particulate Contamination, Distillation
 Navy Products: Viscosity, Total Acidity, TBN, Sulfated Ash, Bottom Sediment and Water
 Army Products: Viscosity at 40 oC and 100 oC, Sulfated Ash, Penetration Worked, Oil Separation, Drop
 Point, Neutralization,
 Distillation Antifreeze: Distillation, Ash

CANADA

1. **Name of laboratory:** Quality Engineering Test Establishment (QETE)
2. **Point of contact and address:** National Defence Headquarters
 ATTN: Marie Robichaud, QETE 3-3
 101 Colonel By Drive, Ottawa, ON, Canada K1A 0K2
 Shipping address: Quality Engineering Test Establishment
 ATTN: Nathalie Gaudet, QETE 3-3, (+1) 819-939-9328
 National Printing Bureau Building, Ramp No. 7, Room C-1113
 45 Sacré-Cœur Boulevard, Gatineau, QC, Canada J8X 1C6
 Phone: (+1) 613-513-5263
 Fax: (+1) 819-997-4096
 Email: AvPOLCBA@forces.ca

3. **Capabilities**

- | | | | |
|----|---|---------------|-----|
| a. | <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A |
| b. | <u>Diesel Fuel</u>
Comment (for tests): | Testing level | A |
| c. | <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | A |
| d. | <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** In progress
 This Lab is working towards implementing a quality system equivalent to ISO 9000 Program
5. **Participation in Inter-laboratory crosscheck program:** YES
 Spectrometric Oil Analysis Program (SOAP) is validated through JOAP TSC/US DOD program.
 System detailed in the Canadian Air Force 9000 Program
6. **Deployable laboratory (field) capability** NO
 Comment (which tests):

7. **Additional testing capability in the fixed laboratory**
 A-level testing for Marine gasoil (NATO code F-76)
 This laboratory provides fuel, lubricants and associated products contamination investigation capability, along with condition monitoring techniques such as Ferrography, Filter Debris Analysis (FDA), hydraulic fluids particle counts using several techniques. BOCLE test method, ASTM D 5001, is available for aviation turbine fuels. Also available are specialized analysis capabilities using Scanning Electron Microscopy with Energy Dispersive X-ray Analysis, Pyrolysis GC-MS, LC-MS, X-ray Diffraction, FT-IR, DSC, TGA, ICP-MS

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CANADA

1. **Name of laboratory:** Naval Engineering Test Establishment (NETE)
2. **Point of contact and address:** Mr. Steven Juneau, Group Leader, Chemistry Laboratory
Naval Engineering Test Establishment
9401 Wanklyn - LASALLE QC, H8R 1Z2, Canada
Phone: (+1) 514-366-4310 extension 241
Fax: (+1) 514-365-0262
Email: juneaus@nete.dnd.ca
3. **Capabilities**

a. <u>Aviation Turbine Fuels</u> Comment (for tests):	Testing level	NA
b. <u>Diesel Fuel</u> Comment (for tests):	Testing level	NA
c. <u>Automotive Gasoline</u> Comment (for tests):	Testing level	NA
d. <u>Lubricant B-2 testing capabilities</u> Comment (for tests): See paragraph 7.		YES
4. **Laboratory accreditation** YES
ISO 9001(2000), ISO 14001(1996) and ISO 17025 accredited.
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
B-2 level for Lubricating Oil, Aircraft (NATO Code O-156), Distillate Fuel Oils (NATO Code F-75, F-76), Naval Lubricants (NATO Code O-240, O-249, O-250, O-274, O-276, O-278, O-254, O-252, O-258, O-283, O-285, O-290) and Naval Hydraulic Fluids (NATO Code H-572, H-573, H-575, H-576).

This laboratory has the means to undertake investigative oil and fuel analysis. Other tests that can be conducted include particle counting in hydraulic fluids by both ISO 4406:1987 and ISO 4406:1999. Water analysis through coulometric Karl Fisher titration (ASTM D6304) can be completed both with and without drying oven. Other tests include fuel dilution through Gas Chromatography – Flame Ionization Detector (GC-FID), fuel filter blocking tendency and surface tension

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CZECH REPUBLIC

1. **Name of laboratory:** POL Development and Testing Department
2. **Point of contact and address:** Ms. Irena Dobsikova
Chief of Central POL Laboratory
Logistic Services Supply Centre
Sumavska 4,
CZ-602 00 BRNO, Czech Republic
Phone: (+420) 973 442 060
Fax: (+420) 973 442 065
Email:
3. **Capabilities**
- | | | |
|--|---------------|-----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | A |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | A |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** YES
Comment (which tests):
Density, FSII – Anti icing additive, Conductivity, Flash point, Test for solid impurity content
7. **Additional testing capability in the fixed laboratory**
- Atomic Absorption Spectroscopy (AAS)
 - UV-VIS Spectroscopy
 - FTIR (ATR) Spectroscopy
 - HFFR, FZG, BOSCH Injector
 - Total Sulphur
 - Particle Counting Testing on Hydraulic Fluid

DENMARK

1. **Name of laboratory:** Danish Defence Laboratory (Forsvarets Laboratorium)

2. **Point of contact and address:** Mr. Casper Noergaard
 Jonstrupvej 300, Building 327
 DK-3500 VAERLOESE, Denmark
 Phone: (+45) 72 81 5293
 Fax:
 Email: FMI-LU-VF03@mil.dk

3. **Capabilities**

a. <u>Aviation Turbine Fuels</u> Comment (for tests):	Testing level	A
b. <u>Diesel Fuel</u> Comment (for tests):	Testing level	A
c. <u>Automotive Gasoline</u> Comment (for tests):	Testing level	A
d. <u>Lubricant B-2 testing capabilities</u> Comment (for tests):		YES

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** YES
 Participates in programs from the Institute for Interlaboratory Studies (IIS) for “Jet A-1” and for “used engine oil”.

6. **Deployable laboratory (field) capability** NO
 Comment (which tests):

7. **Additional testing capability in the fixed laboratory**
 Various analytical techniques: (ATR)-FTIR, DSC, GC-MS, HFRR, HPLC, ICP-MS, ICP-OES, SEM/EDX, and UV-VIS spectrophotometry.
 Optical microscopy and electron microscopy with energy dispersive X-ray spectroscopy (SEM/EDX) as well as mechanical tests of tensile stress-strain and hardness are also available.

ESTONIA

1. **Name of laboratory:** NO ENTRY

2. **Point of contact and address:**

Phone:

Fax:

Email:

3. **Capabilities**

- | | | |
|--|---------------|-----------------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A / B1 / B2 / C |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | A / B1 / B2 / C |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | A / B1 / B2 / C |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES / NO |

4. **Laboratory accreditation** YES / NO

5. **Participation in Inter-laboratory crosscheck program:** YES / NO

6. **Deployable laboratory (field) capability** YES / NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

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FRANCE

1. **Name of laboratory:** Centre d'expertise pétrolière interarmées (Cepia)
2. **Point of contact and address:** Ingénieur en Chef Jean-Marc Bouillet
302, Chemin de Sainte Marthe
F-13014 MARSEILLE, France
Phone: (+33) (0)4 95 05 2000
Fax: (+33) (0)4 95 05 2002
Email: cepia-technique.contact.fct@intradef.gouv.fr

3. Capabilities

- | | | |
|--|---------------|-----|
| a. <u>Aviation Turbine Fuels (NATO code F-34/F-35/F-40/F-44)</u>
Comment (for tests): | Testing level | A |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | A |
| c. <u>Automotive Gasoline</u>
Comment (for tests):
Except oxygenates content | Testing level | A |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** YES
Accreditation regarding ISO 17025
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** YES
Accreditation regarding ISO 17025 does not apply to deployable laboratories

Field laboratory (number = 2):

Tests description	Type of product			
	F-67	F-54	F-18	F-35/F-34
Aspect	x	x	x	x
Color	x	x	x	x
Distillation	x	x	x	x
Flash Point PM		x		x
Density	x	x	x	x
Freeze Point				x
Smoke Point				x
Total contamination		x		
Gum content				x

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Doctor test				x
Vapour pressure	x		x	
Thermal oxidation stability				x
Calculated cetane index		x		
Cloud Point		x		
CFPP		x		
Copper Corrosion	x	x	x	x
Conductivity at 20°C				x
FSII Content				x
Water reaction				x
Free Water Content (hydrotest)				x
Microbiological detection		x		x
Particulate contaminant	x		x	x

Light analysis laboratory (number = 3):

Tests description	Type of product			
	F-67	F-54	F-18	F-35/F-34
Aspect	x	x	x	x
Color	x	x	x	x
Distillation	x	x	x	x
Density	x	x	x	x
Freeze Point				x
Calculated cetane index		x		
Conductivity at 20°C				x
FSII Content				x
Microbiological detection		x		x
Particulate contaminant	x		x	x

7. Additional testing capability in the fixed laboratory

GERMANY

1. **Name of laboratory:** Wehrwissenschaftliches Institut für Werk- und Betriebsstoffe (WIWeB)
2. **Point of contact and address:** Mr. Heinrich Dinnebier
 Institutsweg, 1
 D-85435 ERDING, Germany
 Phone: (+49) 8122 9590 3400
 Fax: (+49) 8122 9590 3402
 Email: WIWEBGB400@bundeswehr.org

3. Capabilities

- | | | |
|---|---------------|-----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests):
Except F-40 | Testing level | A |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | A |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B2 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** YES

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** YES

Comment (which tests):

C-Test Aviation and Ground Fuels: - Sampling - Appearance - Density - Water Content, qualitative - Electrical Conductivity (optional)	Short Test Aviation Turbine Fuel (Supplement to C-Test): - Water Content, quantitative - Water Reaction - Electrical Conductivity - Particulate contamination, quantitative - FSII - Flash Point	IR-Spectrophotometer (Supplement to short test): - FSII - Density at 15oC. - Viscosity at -20°C - Freezing Point - Flash Point - Distillation - Aromatic Content - Naphthalene Content
--	--	--

Note: These three pieces of equipment can be combined when necessary

7. **Additional testing capability in the fixed laboratory**

Analytical Techniques e.g.:

- FTIR-Spectroscopy
- Gas-/Liquid Chromatography - Mass Spectrometry
- X-Ray Fluorescence Analysis
- ICP-OES

GREECE

1. **Name of laboratory:** Hellenic Air Force (HAF)/State Aircraft Depot/Chemistry

2. **Point of contact and address:** Niki Bliona
 Elefsina AFB, Elefsina, Greece
 Phone: (+30) 210 550 2280
 Fax: (+30) 210 550 2345
 Email: Email: chemlab.kea@haf.gr

3. **Capabilities**

- | | | | |
|----|---|---------------|-------|
| a. | <u>Aviation Turbine Fuels</u>
Comment (for tests):
Except thermal stability | Testing level | B2(-) |
| b. | <u>Diesel Fuel</u>
Comment (for tests):
Except carbon residue & cold filter plugging point | Testing level | B1(-) |
| c. | <u>Automotive Gasoline</u>
Comment (for tests):
Except oxidation stability | Testing level | B1(-) |
| d. | <u>Lubricant B-2 testing capabilities</u>
Comment (for tests):
Except viscosity at lower t°, protection and oxidation | | YES |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** NO

6. **Deployable laboratory (field) capability** NO
 Comment (which tests):

7. **Additional testing capability in the fixed laboratory**
 B-2 level for Aviation Gasoline 100LL (NATO code F-18) except tetraethyl lead and oxidation stability.
 B-2 level for Marine gasoil 100LL (NATO code F-76) except carbon residue and cloud point.

Particulate matter & filtration time for aviation fuels.
 Total Acid Number (TAN).
 Particulate contamination of hydraulic fluids.

Analytical techniques (e.g.):
 Spectrometric Oil Analysis
 Scanning Electron Microscopy/Energy Dispersive X-ray
 Atomic Absorption Spectroscopy (AAS)
 Fourier Transform Infrared Spectroscopy (FTIR)
 Gas Chromatography (GC-TCD/FID)

NATO/IP UNCLASSIFIED

GREECE

1. **Name of laboratory:** Hellenic Air Force (HAF)/Petroleum Distribution Command (PDC)/
Laboratory of the Greek Pipeline System (GRPS)

2. **Point of contact and address:** George Dodontzidis
Petroleum Distribution Command
Eleftherio, Larissa, Greece
Phone: (+30) (2410) 56 2764
Fax: (+30) (2410) 56 3021
Email: chemlab.dak@haf.gr

3. **Capabilities**

a. <u>Aviation Turbine Fuels</u> Comment (for tests):	Testing level	B2
b. <u>Diesel Fuel</u> Comment (for tests): NATO code F-54	Testing level	B2
c. <u>Automotive Gasoline</u> Comment (for tests):	Testing level	B2
d. <u>Lubricant B-2 testing capabilities</u> Comment (for tests):		NO

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** YES
Comment (which tests):
C-test of aviation and ground fuels (Incl. conductivity, FSII, density at 15°C and water reaction for aviation fuel)

7. **Additional testing capability in the fixed laboratory**
B-2 level for Aviation Gasoline 100LL (NATO code F-18) except tetraethyl lead.
B-2 level for Naval distillate (NATO code F-76) except bottom sediment & water, water separation

Particulate matter & filtration time for aviation fuels
Pour Point and Total Sulphur

NATO/IP UNCLASSIFIED

GREECE

1. **Name of laboratory:** Hellenic Air Force (HAF)/115CW/Fuel Laboratory
2. **Point of contact and address:** Athina Bozani
Souda AFB, Chania, Greece
Phone: (+30) 282 100 5036
(+30) 282 100 5067
Fax: (+30) 282 100 5013
Email: qa.115cw@haf.gr
3. **Capabilities**
 - a. Aviation Turbine Fuels Testing level B1(-)
Comment (for tests):
Except existent gum, freezing point, copper strip corrosion, water content and atmospheric distillation
 - b. Diesel Fuel Testing level B1(-)
Comment (for tests):
Except carbon residue, sulfur content, water content and cold filter plugging point
 - c. Automotive Gasoline Testing level B1(-)
Comment (for tests):
Except existent gum, copper strip corrosion, sulfur content and oxidation stability
 - d. Lubricant B-2 testing capabilities NO
Comment (for tests):
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** NO
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
B-1 level for Aviation Gasoline 100LL (NATO code F-18) except freezing point, atmospheric distillation, water content & tetraethyl lead

NATO/IP UNCLASSIFIED

GREECE

1. **Name of laboratory:** Hellenic Air Force (HAF)/117CW/Fuel Laboratory

2. **Point of contact and address:** Paraskevi Andriopoulou
Andravida AFB, Andravida, Greece
Phone: (+30) 262 306 5687
Fax: -
Email: tpe.117cw@haf.gr

3. Capabilities

- | | | |
|--|---------------|-------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B1 |
| b. <u>Diesel Fuel</u>
Comment (for tests):
Except carbon residue, water content & cold filter plugging point | Testing level | B1(-) |
| c. <u>Automotive Gasoline</u>
Comment (for tests):
Except Copper strip corrosion, existent gum and oxidation stability | Testing level | B1(-) |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** NO

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. Additional testing capability in the fixed laboratory

B-1 level for Aviation Gasoline 100LL (NATO code F-18), except tetraethyl lead.

GREECE

1. **Name of laboratory:** Hellenic Navy (HN), Salamis Naval Base, Fuels and Lubricants Quality Control Department

2. **Point of contact and address:** Peter Monogios
 Skaramagas, Greece
 Phone: (+30) 210 553 1666
 Fax: (+30) 210 553 1659
 Email: ns_dk_chem@navy.mil.gr

3. **Capabilities**

- | | | |
|--|---------------|-------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests):
NATO code F-44 except: existent gum, freezing point, thermal stability | Testing level | B2(-) |
| b. <u>Diesel Fuel</u>
Comment (for tests):
NATO code F-54 except: carbon residue, cold filter plugging point
NATO code F-76 except: carbon residu | Testing level | B2(-) |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | C |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests):
Except: sulphated ash | | YES |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** NO

6. **Deployable laboratory (field) capability** NO
 Comment (which tests):

7. **Additional testing capability in the fixed laboratory**
 AAS, FTIR, CCFD

NATO/IP UNCLASSIFIED

1. **Name of laboratory:** Hellenic Navy (HN), Souda Naval Base, POL Fuel Laboratory
2. **Point of contact and address:** Dimitrios Papadopoulos
Souda Naval Base, Marathi, Chania, Greece
Phone: (+30) 282 108 2360
Fax: (+30) 282 108 2360
Email: nk_dk_nato@navy.mil.gr

3. Capabilities

- a. Aviation Turbine Fuels Testing level B2(+)
Comment (for tests):
NATO code F-44 (MIL-DTL-5624W) plus: sulphur content, particulate matter and filtration time
- b. Diesel Fuel Testing level B2(+)
Comment (for tests):
NATO code F-76 (MIL-DTL-16884P) plus: sulphur content and particulate matter
- c. Automotive Gasoline Testing level B2(-)
Comment (for tests):
NATO code F-67 except: vapour pressure and oxidation stability;
plus sulphur content for automotive gasoline
- d. Lubricant B-2 testing capabilities NO
Comment (for tests):
Except: sulphated ash

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** NO

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. Additional testing capability in the fixed laboratory

- a. Sulphur content, particulate matter and filtration time for aviation fuel (see 3a)
- b. Sulphur content for automotive gasoline (see 3c)
- c. B1(-) test level for ground diesel fuel (NATO code F-54) except: cold filter plugging point (CFPP) and water content
- d. B2(-) level test for JP-8 (NATO code F-34) except conductivity
- e. Open cup flash point (Cleveland), water content, precipitation number and viscosity for engine oils

HUNGARY

1. **Name of laboratory:** Fuel Laboratory, Material Store Base

2. **Point of contact and address:** OF-3 Toleugiz Mihalik
Hungarian Defence Forces Material Store Base
Dánszentmiklósi út 1
H-2364 Pusztavacs, Hungary

 Phone: (+36) (29) 515-350
 Fax: (+36) (29) 515-352
 Email: toleugiz.mihalik@mil.hu

3. **Capabilities**

<p>a. <u>Aviation Turbine Fuels</u> Comment (for tests): NATO code F-34 / F-35 / F-40 / F-44 Except: the existent gum Supplemented: viscosity at -20°C smoke point FAME content by FTIR</p>	Testing level	B1
<p>b. <u>Diesel Fuel</u> Comment (for tests): NATO code F-54 Supplemented: cloud point viscosity at 40 °C sulfur content cetane index lubricity (corrected wear scar diameter)</p>	Testing level	B1
<p>c. <u>Automotive Gasoline</u> Comment (for tests): NATO code F-67 Except: the existent gum oxidation stability Supplemented: RON Lead</p>	Testing level	B1
<p>d. <u>Lubricant B-2 testing capabilities</u> Comment (for tests): B-2(-)</p>		B-2

4. **Laboratory accreditation** YES
 ISO 9001
 According to EN ISO/IEC 17025 for most of the tests

5. **Participation in Inter-laboratory crosscheck program:** NO

6. **Deployable laboratory (field) capability** NO
 Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

ITALY

1. **Name of laboratory:** 2nd Laboratorio Tecnico A.M. di Controllo
2. **Point of contact and address:** Lt.Col. Daniele CAUCCI
 Aeronautica Militare Italiana
 2nd Laboratorio Tecnico A.M. di Controllo
 Via Portuense, 1818
 I-00054 FIUMICINO (RM), Italy
 Phone: (+39) 066 500 0114
 Fax: (+39) 066 500 0114
 Email: daniele.caucci@am.difesa.it

3. **Capabilities**

- | | | |
|--|---------------|----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | NA |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | NA |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

- | | |
|---|-----|
| 4. Laboratory accreditation
ISO 17025. | YES |
| 5. Participation in Inter-laboratory crosscheck program:
Oxygen (USAF) – Joint Oil Analysis Program (JOAP) – National jet-fuel crosscheck | YES |
| 6. Deployable laboratory (field) capability
Comment (which tests):
Oxygen, JOAP, hydraulic fluid & C+ fuel testing capabilities | YES |
| 7. Additional testing capability in the fixed laboratory
Particle Counting and Water Content Testing (Karl Fischer Test)
on Hydraulic Fluid. | YES |

ITALY

1. **Name of laboratory:** 3rd Laboratorio Tecnico A.M. di Controllo

2. **Point of contact and address:** Lt.Col. Antonio GUITTO
 Aeronautica Militare Italiana
 3rd Laboratorio Tecnico A.M. di Controllo
 Via Torre di Mizzo 24/D
 I-70126 BARI Mungivacca, Italy
 Phone: (+39) 080 548 9616
 Fax: (+39) 080 548 9320
 Email: antonio.guitto@am.difesa.it
laboraereo4@am.difesa.it

3. **Capabilities**

- | | | |
|--|---------------|-----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | NA |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | NA |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** YES
 Oxygen (USAF) – Joint Oil Analysis Program (JOAP)
 National jet-fuel and hydraulic fluid cross-check

6. **Deployable laboratory (field) capability** NO
 Comment (which tests):

7. **Additional testing capability in the fixed laboratory** YES
 Particle Counting Testing on Hydraulic Fluid

ITALY

1. **Name of laboratory:** 4th Laboratorio Tecnico A.M. di Controllo
2. **Point of contact and address:** Lt.Col. Massimo VIRGA
 Aeronautica Militare Italiana
 4th Laboratorio Tecnico A.M. di Controllo
 Via Caluri, 112
 I-37069 VERONA Villafranca (VR), Italy
 Phone: (+39) 045 633 2931
 Fax: Fax: (+39) 0521 93 2536
 Email: massimo.virga@am.difesa.it
aboraereo4@am.difesa.it

3. **Capabilities**

- | | | | |
|----|--|---------------|-------------|
| a. | <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A |
| b. | <u>Diesel Fuel</u>
Comment (for tests): | Testing level | NA |
| c. | <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | NA |
| d. | <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |
| 4. | Laboratory accreditation
This laboratory is working towards ISO 17025 quality system | | IN PROGRESS |
| 5. | Participation in Inter-laboratory crosscheck program:
National jet-fuel crosscheck | | YES |
| 6. | Deployable laboratory (field) capability
Comment (which tests):
Oxygen, JOAP, hydraulic fluid & C+ fuel testing capabilities | | YES |
| 7. | Additional testing capability in the fixed laboratory
Particle Counting and Water Content Testing (Karl Fischer Test)
on Hydraulic Fluid. | | YES |

ITALY

1. **Name of laboratory:** 5th Laboratorio Tecnico A.M. di Controllo
2. **Point of contact and address:** Maj. Luca PERFETTO
 AERONAUTICA MILITARE
 5th Laboratorio Tecnico A.M. di Controllo
 Aeroporto Militare di Decimomannu G. Farina
 Località Forada, SS 196 Km 4
 09034 Villasor (CA)
 Phone: (+39) 070 966 2432
 Fax: (+39) 070 966 2850
 Email: luca.perfetto@am.difesa.it
laboraereo5@am.difesa.it

3. **Capabilities**

- | | | | |
|----|--|---------------|----|
| a. | <u>Aviation Turbine Fuels</u>
Comment (for tests):
Included BOCLE test | Testing level | A+ |
| b. | <u>Diesel Fuel</u>
Comment (for tests): | Testing level | NA |
| c. | <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | NA |
| d. | <u>Lubricant B-2 testing capabilities</u> | | NO |

- | | | | |
|----|---|--|-----|
| 4. | Laboratory accreditation | | NO |
| 5. | Participation in Inter-laboratory crosscheck program:
Joint Oil Analysis Program (JOAP)
National jet-fuel and hydraulic fluid crosscheck | | YES |
| 6. | Deployable laboratory (field) capability
Comment (which tests): | | NO |
| 7. | Additional testing capability in the fixed laboratory
Particle Counting Testing on Hydraulic Fluid. | | YES |

ITALY

1. **Name of laboratory:** 6th Laboratorio Tecnico A.M. di Controllo
2. **Point of contact and address:** Maj. Maurizio GABRIELE
 AERONAUTICA MILITARE
 6th Laboratorio Tecnico A.M. di Controllo
 Aeroporto di Birgi – SP Trapani–Marsala, 2
 I-91100 TRAPANI
 Phone: (+39) 0923 321 2395
 Fax: (+39) 0923 321 2240
 Email: maurizio.gabriele@am.difesa.it
 laboraereo6@am.difesa.it

3. **Capabilities**

- | | | |
|--|---------------|----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | NA |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | NA |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

- | | |
|--|-----|
| 4. Laboratory accreditation | NO |
| 5. Participation in Inter-laboratory crosscheck program:
Joint Oil Analysis Program (JOAP)
National jet-fuel and hydraulic fluid crosscheck | YES |
| 6. Deployable laboratory (field) capability
Comment (which tests): | NO |
| 7. Additional testing capability in the fixed laboratory
Particle Counting Testing on Hydraulic Fluid | YES |

LATVIA

1. **Name of laboratory:** NO ENTRY

2. **Point of contact and address:**

Phone:

Fax:

Email:

3. **Capabilities**

- | | | |
|--|---------------|-----------------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A / B1 / B2 / C |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | A / B1 / B2 / C |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | A / B1 / B2 / C |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES / NO |

4. **Laboratory accreditation** YES / NO

5. **Participation in Inter-laboratory crosscheck program:** YES / NO

6. **Deployable laboratory (field) capability** YES / NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

LITHUANIA

1. **Name of laboratory:** NO ENTRY

2. **Point of contact and address:**

Phone:

Fax:

Email:

3. **Capabilities**

- | | | |
|--|---------------|-----------------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A / B1 / B2 / C |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | A / B1 / B2 / C |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | A / B1 / B2 / C |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES / NO |

4. **Laboratory accreditation** YES / NO

5. **Participation in Inter-laboratory crosscheck program:** YES / NO

6. **Deployable laboratory (field) capability** YES / NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

THE NETHERLANDS

1. **Name of laboratory:** Royal Netherlands Navy Laboratory
2. **Point of contact and address:** Mrs. F.E. Panoto BSc
 Harsseenseiland
 Postbus 10000
 NL-1780 CA, DEN HELDER
 Phone: (+31) 223 657 591
 Fax: (+31) 223 657 629
 Email: SCHEILAB.CZMMAT@mindef.nl

3. Capabilities

- | | | | |
|----|--|---------------|-------|
| a. | <u>Aviation Turbine Fuels</u>
Comment (for tests):
Only flash point density, distillation, total water, FSII, corrosion inhibitor, Cu corrosion. | Testing level | B2(-) |
| b. | <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B2 |
| c. | <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | NA |
| d. | <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** YES
 According to ISO 17025 for most of the tests.
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
 Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
 B-2 level for Marine gasoil (NATO code F-76)
 Additional test program for oil analyses related to condition monitoring.

NORWAY

1. **Name of laboratory:** Norwegian Defence Logistic Organization, Norwegian Defence Laboratories, Chemistry and Materials Technology

2. **Point of contact and address:** Ms Bente Lauritzen
 FLO/VEDL/FOLAT
 Chemistry and Materials Laboratory
 P.O. Box 10
 N-2027 KJELLER, NORWAY
 Phone: (+47) 6380 8752
 Fax: (+47) 6380 8758
 Email: belauritzen@mil.no

3. **Capabilities**

- | | | | |
|----|---|---------------|-------|
| a. | <u>Aviation Turbine Fuels</u>
Comment (for tests):
Except mercaptan sulphur | Testing level | A(-) |
| b. | <u>Diesel Fuel</u>
Comment (for tests):
Except carbon residue | Testing level | B2(-) |
| c. | <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | NA |
| d. | <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

4. **Laboratory accreditation** YES
 According to ISO 17025

5. **Participation in Inter-laboratory crosscheck program:** YES
 IIS PT Fuels and Diesel programs

6. **Deployable laboratory (field) capability** NO
 Comment (which tests):

7. **Additional testing capability in the fixed laboratory**
 Unknown contaminant identification capabilities to include: Fourier Transform IR (FTIR) Spectrophotometry, Scanning Electron Microscopy-Energy Dispersive Spectroscopy (SEM/EDS), GC-Mass Spectroscopy, Induction Coupled Plasma (ICP-AES), Atomic Absorption (AA-GFAAS).

POLAND

1. **Name of laboratory:** Fuels and Lubricants Regional Laboratory – Debogorze
(Rejonowe Laboratorium MPS Debogorze OBSMPS)

2. **Point of contact and address:** Slr.cmdr Krzysztof Ilczuk, Manager
Debogorze
P-84-232 RUMIA, Poland
Phone: (+48) 261 267 514
Fax: (+48) 261 267 504
Email: obsmps.lab.deb@ron.mil.pl

3. **Capabilities**

a. <u>Aviation Turbine Fuels</u> Comment (for tests):	Testing level	B2
b. <u>Diesel Fuel</u> Comment (for tests):	Testing level	B2
c. <u>Automotive Gasoline</u> Comment (for tests):	Testing level	B2
d. <u>Lubricant B-2 testing capabilities</u> Comment (for tests):		YES

4. **Laboratory accreditation** YES
According to PN EN ISO/IEC 17025:2018-02.

5. **Participation in Inter-laboratory crosscheck program:** YES
IIS and other

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

POLAND

1. **Name of laboratory:** Fuels and Lubricants Regional Laboratory
(Rejonowe Laboratorium MPS Wroclaw OBSMPS)

2. **Point of contact and address:** Mr. Kazimierz Czapracki - Manager
Kwidzynska Street, 4
P-50-984 WROCLAW, Poland
 Phone: (+48) 261 658 083
 Fax: (+48) 261 658 079
 Email: obsmps.lab.wroc@ron.mil.pl

3. **Capabilities**

a. <u>Aviation Turbine Fuels</u> Comment (for tests):	Testing level	NA
b. <u>Diesel Fuel</u> Comment (for tests): Except cetane number	Testing level	A
c. <u>Automotive Gasoline</u> Comment (for tests): Except knock rating, oxidation stability	Testing level	B2
d. <u>Lubricant B-2 testing capabilities</u> Comment (for tests):		YES

4. **Laboratory accreditation** YES
 According to PN EN ISO/IEC 17025:2018-02.

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** NO
 Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

POLAND

1. **Name of laboratory:** Fuels and Lubricants Regional Laboratory
(Rejonowe Laboratorium MPS Bydgoszcz OBSMPS)

2. **Point of contact and address:** Mr. Stanislaw Bigalke - Manager
Gdanska Street, 147
P –85-915 BYDGOSZCZ, Poland
 Phone: (+48) 261 413 338
 Fax: (+48) 261 414 336
 Email: obsmps.lab.byd@ron.mil.pl

3. **Capabilities**

<p>a. <u>Aviation Turbine Fuels</u> Comment (for tests):</p>	Testing level	A
<p>b. <u>Diesel Fuel</u> Comment (for tests): Except cetane number</p>	Testing level	A
<p>c. <u>Automotive Gasoline</u> Comment (for tests):</p>	Testing level	A
<p>d. <u>Lubricant B-2 testing capabilities</u> Comment (for tests): More than B-2 requirements</p>		YES

4. **Laboratory accreditation** YES
According to PN EN ISO/IEC 17025:2018-02.

5. **Participation in Inter-laboratory crosscheck program:** YES
IIS and other

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**
HFRR, BOCLE, GC, ICP, ASA, UV/VIS

POLAND

1. **Name of laboratory:** Fuels and Lubricants Regional Laboratory
(Rejonowe Laboratorium MPS Poznan OBSMPS)

2. **Point of contact and address:** Maj. Robert Burkiciak - Manager
Silniki Street, 1
P – 61-325 POZNAN, Poland
Phone: (+48) 261 548 647
Fax: (+48) 261 548 649
Email: obsmps.lab.poz@ron.mil.pl

3. **Capabilities**

a. <u>Aviation Turbine Fuels</u> Comment (for tests):	Testing level	A
b. <u>Diesel Fuel</u> Comment (for tests):	Testing level	A
c. <u>Automotive Gasoline</u> Comment (for tests):	Testing level	B2
d. <u>Lubricant B-2 testing capabilities</u> Comment (for tests): More than B-2 requirements		YES

4. **Laboratory accreditation** YES
According to PN EN ISO/IEC 17025:2018-02.

5. **Participation in Inter-laboratory crosscheck program:** YES
ISS and other

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**
B-2 level for Avgas F-18
B2+ level for additions for aviation fuels
B2+ level for cooling liquids

PORTUGAL

1. **Name of laboratory:** Engineering and Industrial Technology National Institute

2. **Point of contact and address:** No specific point of contact (just INETI)
 Estrada do Paço do Luminar
 P-1649-048 LISBOA, Portugal
 Phone: (+351) 1 21 7165141
 Fax: (+351) 1 21 716901
 Email: none

3. **Capabilities**

- | | | | |
|----|---|---------------|-----|
| a. | <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B1 |
| b. | <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B1 |
| c. | <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B1 |
| d. | <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** YES
 ISO 17025

5. **Participation in Inter-laboratory crosscheck program:** NO

6. **Deployable laboratory (field) capability** NO
 Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

PORTUGAL

1. **Name of laboratory:** Direcção de Abastecimentos Laboratory

2. **Point of contact and address:** Chief Engineer of the Laboratory
Base Naval de Lisboa - ALFEITE
P-2810-001 ALMADA, Portugal
Phone: (+351) 1 21 2767225
Fax: (+351) 1 21 2731722
Email:

3. Capabilities

- | | | |
|--|---------------|-----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | Na |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B2 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | NA |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** NO

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

ROMANIA

1. **Name of laboratory:** NO ENTRY

2. **Point of contact and address:**

Phone:

Fax:

Email:

3. **Capabilities**

- | | | |
|--|---------------|-----------------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A / B1 / B2 / C |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | A / B1 / B2 / C |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | A / B1 / B2 / C |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES / NO |

4. **Laboratory accreditation** YES / NO

5. **Participation in Inter-laboratory crosscheck program:** YES / NO

6. **Deployable laboratory (field) capability** YES / NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

SLOVAKIA

1. **Name of laboratory:** Centre for Metrology and Testing (CMaS)
2. **Point of contact and address:** Chief, Centre for Metrology and Testing
Rajecká cesta 18, 010 01 Žilina, SLOVAKIA
Phone: (+421) 960 442 831
Fax: (+421) 960 442 555
Email: CMASzilina@mil.sk
3. **Capabilities**

a. <u>Aviation Turbine Fuels</u> Comment (for tests):	Testing level	A
b. <u>Diesel Fuel</u> Comment (for tests):	Testing level	A
c. <u>Automotive Gasoline</u> Comment (for tests):	Testing level	A
d. <u>Lubricant B-2 testing capabilities</u> Comment (for tests):		YES / NO
4. **Laboratory accreditation**
EN ISO 17025 YES
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability**
Comment (which tests): NO
7. **Additional testing capability in the fixed laboratory**
HFRR, BOCLE, ICP, FTIR, GC/MS, HPLC, UV/VIS test methods

SLOVENIA

1. **Name of laboratory:** NO ENTRY

2. **Point of contact and address:**

Phone:

Fax:

Email:

3. **Capabilities**

- | | | |
|--|---------------|-----------------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A / B1 / B2 / C |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | A / B1 / B2 / C |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | A / B1 / B2 / C |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES / NO |

4. **Laboratory accreditation** YES / NO

5. **Participation in Inter-laboratory crosscheck program:** YES / NO

6. **Deployable laboratory (field) capability** YES / NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

SPAIN

1. **Name of laboratory:** Laboratorio Central del Ejército (LCE) – Central Laboratory of the Army
2. **Point of contact and address:** Colonel Director
 Acuartelamiento San Cristóbal-Villaverde
 Avda. de Andalucía, km 10.200
 28021 MADRID, Spain
 Phone: (+34) 917 798 116 / (+34) 917 798 117
 Fax: (+34) 917 794 589
 Email: laboratorio_central@et.mde.es

3. Capabilities

- | | | | |
|----|--|---------------|-------|
| a. | <u>Aviation Turbine Fuels</u>
Comment (for tests):
Except: Vapour pressure
In addition: Total Acid Number, Doctor test and viscosity at -20 °C | Testing level | B1(±) |
| b. | <u>Diesel Fuel</u>
Comment (for tests):
In addition: Cloud point, viscosity at 40 °C, copper strip corrosion, ash content, oxidation stability, total contamination, cetane index and freeze point | Testing level | B1(+) |
| c. | <u>Automotive Gasoline</u>
Comment (for tests):
Except: Vapour pressure | Testing level | B1(-) |
| d. | <u>Lubricant B-2 testing capabilities</u>
Comment (for tests):
See paragraph 7. | | YES |

4. **Laboratory accreditation** YES
 ISO 17025; accredited as Center for Technical Activity by the Spanish Ministry of Defense

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** NO
 Comment (which tests):

7. **Additional testing capability in the fixed laboratory**
 Detection and identification of metallic elements by rotating disk electrode (RDE) emission spectrometry, as part of the Spanish Army Oil Analysis Program.
 Testing of greases (worked and unworked penetration, oil separation, drop point, copper strip corrosion, oxidation tests, etc.).
 Testing level A for NATO F-76 naval distillate fuel except cetane number, sulfur contents and accelerated storage stability.

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Base Principal FAMET – FAMET Main Base
2. **Point of contact and address:** Chief, FAMET Main Base Fuel Laboratory
Base “Coronel Maté”
Colmenar Viejo, MADRID, Spain
Phone & Fax: (+34) 918 465 500
Email:
3. **Capabilities**
 - a. Aviation Turbine Fuels Testing level B2
Comment (for tests):
 - b. Diesel Fuel Testing level NA
Comment (for tests):
 - c. Automotive Gasoline Testing level NA
Comment (for tests):
 - d. Lubricant B-2 testing capabilities NO
Comment (for tests):
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** NO
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** BHELA I (Helicopter Attack Battalion I)
2. **Point of contact and address:** Chief, BHELA I Fuel Laboratory
Base "Coronel Sánchez Bilbao" Almagro, CIUDAD REAL, Spain
Phone & Fax: (+34) 926 262 345
Email:
3. **Capabilities**
 - a. Aviation Turbine Fuels Testing level C
Comment (for tests):
 - b. Diesel Fuel Testing level NA
Comment (for tests):
 - c. Automotive Gasoline Testing level NA
Comment (for tests):
 - d. Lubricant B-2 testing capabilities NO
Comment (for tests):
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** NO
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** BHELEME II (Emergency Helicopter Battalion II)
2. **Point of contact and address:** Chief, BHELEME II Fuel Laboratory
Base "Jaime I"
Bétera, VALENCIA, Spain
Phone & Fax: (+34) 961 699 258
Email:
3. **Capabilities**
 - a. Aviation Turbine Fuels Testing level C
Comment (for tests):
 - b. Diesel Fuel Testing level NA
Comment (for tests):
 - c. Automotive Gasoline Testing level NA
Comment (for tests):
 - d. Lubricant B-2 testing capabilities NO
Comment (for tests):
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** NO
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** BHELMA III (Manoeuvre Helicopter Battalion III)
2. **Point of contact and address:** Chief, BHELMA III Fuel Laboratory
Acuartelamiento "Héroes del Revellín"
Agoncillo, LA RIOJA, Spain
Phone & Fax: (+34) 941 279 461
Email:
3. **Capabilities**
 - a. Aviation Turbine Fuels Testing level C
Comment (for tests):
 - b. Diesel Fuel Testing level NA
Comment (for tests):
 - c. Automotive Gasoline Testing level NA
Comment (for tests):
 - d. Lubricant B-2 testing capabilities NO
Comment (for tests):
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** NO
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** BHELMA IV (Manoeuvre Helicopter Battalion IV)
2. **Point of contact and address:** Chief, BHELMA IV Fuel Laboratory
Base "El Copero"
Dos Hermanas, SEVILLA, Spain
Phone & Fax: (+34) 954 939 057
Email:
3. **Capabilities**
 - a. Aviation Turbine Fuels Testing level A / B1 / B2 / C
Comment (for tests):
 - b. Diesel Fuel Testing level A / B1 / B2 / C
Comment (for tests):
 - c. Automotive Gasoline Testing level A / B1 / B2 / C
Comment (for tests):
 - d. Lubricant B-2 testing capabilities YES / NO
Comment (for tests):
4. **Laboratory accreditation** YES / NO
5. **Participation in Inter-laboratory crosscheck program:** YES / NO
6. **Deployable laboratory (field) capability** YES / NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Destacamento de Melilla del BHELMA IV – BHELMA IV Melilla Detachment

2. **Point of contact and address:** Chief, BHELMA IV (Melilla Detachment) Fuel Laboratory
Helipuerto Militar de Melilla
MELILLA, Spain
Phone & Fax:

Phone & Fax: (+34) 952 699 617
Email:

3. **Capabilities**
 - a. Aviation Turbine Fuels Testing level C
Comment (for tests):

 - b. Diesel Fuel Testing level NA
Comment (for tests):

 - c. Automotive Gasoline Testing level NA
Comment (for tests):

 - d. Lubricant B-2 testing capabilities NO
Comment (for tests):

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** NO

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** BHELMA VI (Manoeuvre Helicopter Battalion VI)
2. **Point of contact and address:** Chief, BHELMA VI Fuel Laboratory
Acuartelamiento "Los Rodeos"
La Laguna, TENERIFE, Spain
Phone & Fax: (+34) 922 676 141
Email:
3. **Capabilities**
 - a. Aviation Turbine Fuels Testing level C
Comment (for tests):
 - b. Diesel Fuel Testing level NA
Comment (for tests):
 - c. Automotive Gasoline Testing level NA
Comment (for tests):
 - d. Lubricant B-2 testing capabilities NO
Comment (for tests):
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** NO
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Centro de Carburantes (CCAR) de la Agrupación de Apoyo Logístico 41 (AALOG 41) – Fuel Centre (CCAR), Logistic Support Group 41 (AALOG 41)

2. **Point of contact and address:** Chief, Fuel Laboratory, AALOG 41 – CCAR
Base “San Jorge”
San Gregorio, ZARAGOZA, Spain
Phone & Fax: (+34) 976 520 581
Email:

3. **Capabilities**

a. <u>Aviation Turbine Fuels</u> Comment (for tests):	Testing level	C
b. <u>Diesel Fuel</u> Comment (for tests):	Testing level	NA
c. <u>Automotive Gasoline</u> Comment (for tests):	Testing level	NA
d. <u>Lubricant B-2 testing capabilities</u> Comment (for tests):		NO

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** NO

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

SPAIN

1. **Name of laboratory:** Laboratorio de Combustibles y Lubricantes
Arsenal de Cartagena
2. **Point of contact and address:** Chief, F&L Laboratory
Muelle del Petroleo s/n
30290 CARTAGENA NAVAL (Murcia), Spain
Phone: (+34) 968 529 550
Fax:
Email:

3. Capabilities

- | | | | |
|----|--|---------------|-------|
| a. | <u>Aviation Turbine Fuels</u>
Comment (for tests):
Except vapour pressure, existent gum and freezing point | Testing level | B1(-) |
| b. | <u>Diesel Fuel</u>
Comment (for tests):
Except cold filter plug point | Testing level | B1(-) |
| c. | <u>Automotive Gasoline</u>
Comment (for tests):
Except vapour pressure, existent gum and oxidation stability | Testing level | B1(-) |
| d. | <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** NO

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Laboratorio de Fluidos
2. **Point of contact and address:** Chief, Predictive maintenance, Laboratory and Technical Office
Arsenal Militar de El Ferrol
El Ferrol, LA CORUÑA, Spain
Phone & Fax: (+34) 981 336 104
Email:
3. **Capabilities**
 - a. Aviation Turbine Fuels Testing level B1
Comment (for tests):
 - b. Diesel Fuel Testing level B1
Comment (for tests):
 - c. Automotive Gasoline Testing level B1
Comment (for tests):
 - d. Lubricant B-2 testing capabilities YES
Comment (for tests):
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** NO
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Laboratorio Servicio de Combustibles – Fuel Service Laboratory

2. **Point of contact and address:** Chief, Fuel Service Laboratory
Arsenal Militar Las Palmas
C/Leon y Castillo, 310
35007 LAS PALMAS de GRAN CANARIA, Spain

Phone & Fax: (+34) 928 443 151
Email:

3. Capabilities

- | | | |
|--|---------------|-----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | NA |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B1 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | NA |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** NO

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

SPAIN

1. **Name of laboratory:** Laboratorio de Combustibles y Lubricantes – F&L Laboratory

2. **Point of contact and address:** Chief, F&L Laboratory
 Arsenal de La Carraca
 11110, SAN FERNANDO Naval, CÁDIZ, Spain
 Phone: (+34) 956 599 000 Ext. 35372
 Fax: (+34) 956 599 204
 Email:

3. **Capabilities**

- | | | | |
|----|---|---------------|-------|
| a. | <u>Aviation Turbine Fuels</u>
Comment (for tests):
Except conductivity, Reid vapour pressure, lead and existent gum | Testing level | B2(-) |
| b. | <u>Diesel Fuel</u>
Comment (for tests):
Except carbon residue | Testing level | B2(-) |
| c. | <u>Automotive Gasoline</u>
Comment (for tests):
Except existent gum, oxidation stability and RVP | Testing level | B2(-) |
| d. | <u>Lubricant B-2 testing capabilities</u>
Comment (for tests):
Not all B-2 tests | | YES |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** NO
 Comment (which tests):

7. **Additional testing capability in the fixed laboratory**
 Analysis of pollution and degradation in service of lubricant oils and hydraulic fluids.
 Testing level B-2 for NATO F-76 naval distillate fuel.

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Base Aérea de Albacete – Albacete Air Force Base
2. **Point of contact and address:** Chief, Fuels Section
Base Aérea de Albacete
Carretera de Murcia s/n
02071 ALBACETE, Spain
Phone & Fax: (+34) 967 556 148
Email: jmatris@ea.mde.es
3. **Capabilities**
 - a. Aviation Turbine Fuels Testing level B1
Comment (for tests):
 - b. Diesel Fuel Testing level B2(-)
Comment (for tests):
Except Carbon residue and cold filter plugging point
 - c. Automotive Gasoline Testing level B2
Comment (for tests):
 - d. Lubricant B-2 testing capabilities NO
Comment (for tests):
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
Testing Level B-2 for NATO F-18 aviation gasoline except Oxidation stability and tetra ethyl lead.

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Base Aérea de Alcantarilla – Alcantarilla Air Force Base
2. **Point of contact and address:** Chief, Fuels Section
Base Aérea de Alcantarilla
Avenida de Lorca s/n
30820 Alcantarilla, MURCIA, Spain
Phone & Fax: (+34) 968 397 267
Email: jmedper@ea.mde.es
3. **Capabilities**
 - a. Aviation Turbine Fuels Testing level B1
Comment (for tests):
 - b. Diesel Fuel Testing level B2(-)
Comment (for tests):
Except Carbon residue and cold filter plugging point
 - c. Automotive Gasoline Testing level B2
Comment (for tests):
 - d. Lubricant B-2 testing capabilities NO
Comment (for tests):
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
Testing Level B-2 for NATO F-18 aviation gasoline except Oxidation stability and tetra ethyl lead.

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Base Aérea de Armilla – Armilla Air Force Base
2. **Point of contact and address:** Chief, Fuels Section
Base Aérea de Armilla
Ctra. de Motril s/n
18100 Armilla, GRANADA, Spain
Phone & Fax: (+34) 958 218 892
Email: jmar241@ea.mde.es
3. **Capabilities**
 - a. Aviation Turbine Fuels Testing level B1
Comment (for tests):
 - b. Diesel Fuel Testing level B2(-)
Comment (for tests):
Except Carbon residue and cold filter plugging point
 - c. Automotive Gasoline Testing level B2
Comment (for tests):
 - d. Lubricant B-2 testing capabilities NO
Comment (for tests):
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
Testing Level B-2 for NATO F-18 aviation gasoline except Oxidation stability and tetra ethyl lead.

SPAIN

1. **Name of laboratory:** Centro Logístico de Material de Apoyo (CLOMA) – Logistic Support Material Centre (CLOMA)

2. **Point of contact and address:** Chief, CLOMA Central Laboratory
 Base Aérea de Cuatro Vientos
 Avda. Aviación 14 L-10
 28054 Cuatro Vientos, MADRID, Spain
 Phone & Fax: (+34) 916 493 318 / (+34) 916 493 195
 Email: aagrgut@ea.mde.es

3. **Capabilities**

<p>a. <u>Aviation Turbine Fuels</u> Comment (for tests): In addition: Total Acid Number</p>	<p>Testing level</p>	<p>B1(+)</p>
<p>b. <u>Diesel Fuel</u> Comment (for tests): Except Carbon residue and cold filter plugging point. In addition: Cloud Point, Viscosity at 40 °C, Copper strip corrosion, ash content, water content and total contamination.</p>	<p>Testing level</p>	<p>B2(±)</p>
<p>c. <u>Automotive Gasoline</u> Comment (for tests):</p>	<p>Testing level</p>	<p>B2</p>
<p>d. <u>Lubricant B-2 testing capabilities</u> Comment (for tests):</p>		<p>YES</p>

4. **Laboratory accreditation** NO
 Quality assurance system certified according to AQAP 2120

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** YES
 Comment (which tests):

7. **Additional testing capability in the fixed laboratory**
 Testing Level B-2 for NATO F-18 aviation gasoline except Oxidation stability

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Base Aerea de Gando – Gando Air Force Base
2. **Point of contact and address:** Chief, Fuels Section
Base Aérea de Gando
Aeropuerto de Gran Canaria s/n
35219 LAS PALMAS de GRAN CANARIA, Spain
Phone & Fax: (+34) 928 218 626
Email: jfraalo@ea.mde.es
3. **Capabilities**

a. <u>Aviation Turbine Fuels</u> Comment (for tests):	Testing level	B1
b. <u>Diesel Fuel</u> Comment (for tests): Except Carbon residue and cold filter plugging point	Testing level	B2(-)
c. <u>Automotive Gasoline</u> Comment (for tests):	Testing level	B2
d. <u>Lubricant B-2 testing capabilities</u> Comment (for tests):		NO
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Base Aérea de Getafe – Getafe Air Force Base
2. **Point of contact and address:** Chief, Fuels Section
Base Aérea de Getafe
Plaza del Coronel Polanco s/n
28906 Getafe, MADRID, Spain
Phone & Fax: (+34) 917 798 411
Email: mdiapa1@ea.mde.es
3. **Capabilities**

a. <u>Aviation Turbine Fuels</u> Comment (for tests):	Testing level	B1
b. <u>Diesel Fuel</u> Comment (for tests): Except Carbon residue and cold filter plugging point	Testing level	B2(-)
c. <u>Automotive Gasoline</u> Comment (for tests):	Testing level	B2
d. <u>Lubricant B-2 testing capabilities</u> Comment (for tests):		NO
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
Testing Level B-2 for NATO F-18 aviation gasoline except Oxidation stability

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Aerodromo militar de Lanzarote – Lanzarote Military Airfield
2. **Point of contact and address:** Chief, Fuels Section
Aeródromo Militar de Lanzarote
Carretera del Aeropuerto s/n
35550 San Bartolomé, LANZAROTE, Spain
Phone & Fax: (+34) 928 846 815
Email: fpascab@ea.mde.es
3. **Capabilities**
 - a. Aviation Turbine Fuels Testing level B1
Comment (for tests):
 - b. Diesel Fuel Testing level B2(-)
Comment (for tests):
Except Carbon residue and cold filter plugging point
 - c. Automotive Gasoline Testing level B2
Comment (for tests):
 - d. Lubricant B-2 testing capabilities NO
Comment (for tests):
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
Testing Level B-2 for NATO F-18 aviation gasoline except Oxidation stability and tetra ethyl lead.

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Aerodromo militar de Leon – León Military Airfield
2. **Point of contact and address:** Chief, Fuels Section
Academia Básica del Aire
Avenida de Aviación s/n 24198
24198 Virgen del Camino, LEÓN, Spain
Phone & Fax: (+34) 987 843 640
Email:
3. **Capabilities**
 - a. Aviation Turbine Fuels Testing level B1
Comment (for tests):
 - b. Diesel Fuel Testing level B2(-)
Comment (for tests):
Except Carbon residue and cold filter plugging point
 - c. Automotive Gasoline Testing level B2
Comment (for tests):
 - d. Lubricant B-2 testing capabilities NO
Comment (for tests):
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Base Aérea de Malaga – Málaga Air Force Base
2. **Point of contact and address:** Chief, Fuels Section
Base Aérea de Málaga
Ctra. N-340 km 7
29004 MÁLAGA, Spain
Phone & Fax: (+34) 952 176 876
Email:
3. **Capabilities**
- | | | |
|---|---------------|-------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B1 |
| b. <u>Diesel Fuel</u>
Comment (for tests):
Except Carbon residue and cold filter plugging point | Testing level | B2(-) |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B2 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
Testing Level B-2 for NATO F-18 aviation gasoline except Oxidation stability and tetra ethyl lead.

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Base Aérea de Matacan – Matacán Air Force Base
2. **Point of contact and address:** Chief, Fuels Section
Base Aérea de Matacán
Ctra. de Madrid km 14,5
37080 SALAMANCA, Spain
Phone & Fax: (+34) 923 129 724
Email: fsang37@ea.mde.es
3. **Capabilities**

a. <u>Aviation Turbine Fuels</u> Comment (for tests):	Testing level	B1
b. <u>Diesel Fuel</u> Comment (for tests): Except Carbon residue and cold filter plugging point	Testing level	B2(-)
c. <u>Automotive Gasoline</u> Comment (for tests):	Testing level	B2
d. <u>Lubricant B-2 testing capabilities</u> Comment (for tests):		NO
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
Testing Level B-2 for NATO F-18 aviation gasoline except Oxidation stability

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Base Aérea de Morón – Morón Air Force Base
2. **Point of contact and address:** Chief, Fuels Section
Base Aérea de Morón
Ctra. Sevilla-Morón, km 14
41600 Morón de la Frontera, SEVILLA, Spain
Phone & Fax: (+34) 954 842 236
Email:

3. Capabilities

- | | | |
|---|---------------|-------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B1 |
| b. <u>Diesel Fuel</u>
Comment (for tests):
Except Carbon residue and cold filter plugging point | Testing level | B2(-) |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B2 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
Testing Level B-2 for NATO F-18 aviation gasoline except Oxidation stability

SPAIN

1. **Name of laboratory:** Aerodromo militar de Pollensa – Pollensa Military Airfield

2. **Point of contact and address:** Chief, Fuels Section
 Aeródromo Militar de Pollensa
 Base Aérea s/n Port de Pollensa
 07470 Pollensa, PALMA DE MALLORCA, Spain
 Phone & Fax: (+34) 971 868 113
 Email: jblaver1@ea.mde.es

3. **Capabilities**

- | | | | |
|----|--|---------------|-------|
| a. | <u>Aviation Turbine Fuels</u>
Comment (for tests):
Except existent gum | Testing level | B1(-) |
| b. | <u>Diesel Fuel</u>
Comment (for tests):
Except Carbon residue and cold filter plugging point | Testing level | B2(-) |
| c. | <u>Automotive Gasoline</u>
Comment (for tests):
Except Existent gum | Testing level | B2(-) |
| d. | <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** NO

6. **Deployable laboratory (field) capability** NO
 Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Base Aérea de San Javier – San Javier Air Force Base

2. **Point of contact and address:** Chief, Fuels Section
Base Aérea de San Javier
Avenida Coronel López Peña s/n
30720 San Javier, MURCIA, Spain
Phone & Fax: (+34) 968 189 362
Email: abaijim@ea.mde.es

3. Capabilities

- | | | |
|---|---------------|-------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B1 |
| b. <u>Diesel Fuel</u>
Comment (for tests):
Except Carbon residue and cold filter plugging point | Testing level | B2(-) |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B2 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**
Testing Level B-2 for NATO F-18 aviation gasoline except Oxidation stability

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Base Aérea de Son San Juan – Son San Juan Air Force Base

2. **Point of contact and address:** Chief, Fuels Section
Base Aérea de Son San Juan
Carretera de Manacor, km 8
07071 PALMA DE MALLORCA, Spain
Phone & Fax: (+34) 971 497 528
Email: lcorfig@ea.mde.es

3. Capabilities

- | | | |
|---|---------------|-------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B1 |
| b. <u>Diesel Fuel</u>
Comment (for tests):
Except Carbon residue and cold filter plugging point | Testing level | B2(-) |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B2 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**
Testing Level B-2 for NATO F-18 aviation gasoline except Oxidation stability and tetra ethyl lead.

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Base Aérea de Talavera – Talavera Air Force Base
2. **Point of contact and address:** Chief, Fuels Section
Base Aérea de Talavera
Ctra. Madrid-Lisboa, s/n
06140 Talavera la Real, BADAJOZ, Spain
Phone & Fax: (+34) 924 209 576
Email: jgallo8@ea.mde.es
3. **Capabilities**
 - a. Aviation Turbine Fuels Testing level B1
Comment (for tests):
 - b. Diesel Fuel Testing level B2(-)
Comment (for tests):
Except Carbon residue and cold filter plugging point
 - c. Automotive Gasoline Testing level B2
Comment (for tests):
 - d. Lubricant B-2 testing capabilities NO
Comment (for tests):
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Base Aérea de Torrejón – Torrejón Air Force Base
2. **Point of contact and address:** Chief, Fuels Section
Base Aérea de Torrejón
Ctra. de Barcelona, km 22,800
28850 Torrejón de Ardoz, MADRID, Spain
Phone & Fax: (+34) 916 274 334
Email: jgarb40@ea.mde.es
3. **Capabilities**
- | | | |
|---|---------------|-------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B1 |
| b. <u>Diesel Fuel</u>
Comment (for tests):
Except carbon residue and cold filter plugging point | Testing level | B2(-) |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B2 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
Testing Level B-2 for NATO F-18 aviation gasoline except Oxidation stability

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Base Aérea de Villanubla – Villanubla Air Force Base
2. **Point of contact and address:** Chief, Fuels Section
Base Aérea de Villanubla
Ctra. N-601, km 206
47620 Villanubla, VALLADOLID, Spain
Phone & Fax: (+34) 983 369 708
Email: srapalv@ea.mde.es
3. **Capabilities**

a. <u>Aviation Turbine Fuels</u> Comment (for tests):	Testing level	B1
b. <u>Diesel Fuel</u> Comment (for tests): Except Carbon residue and cold filter plugging point	Testing level	B2(-)
c. <u>Automotive Gasoline</u> Comment (for tests):	Testing level	B2
d. <u>Lubricant B-2 testing capabilities</u> Comment (for tests):		NO
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
Testing Level B-2 for NATO F-18 aviation gasoline except Oxidation stability

NATO/IP UNCLASSIFIED

SPAIN

1. **Name of laboratory:** Base Aérea de Zaragoza – Zaragoza Air Force Base
2. **Point of contact and address:** Chief, Fuels Section
Base Aérea de Zaragoza
Ctra. del Aeropuerto s/n
50190 ZARAGOZA, Spain
Phone & Fax: (+34) 976 708 451
Email: afraga4@ea.mde.es
3. **Capabilities**
 - a. Aviation Turbine Fuels Testing level B1
Comment (for tests):
 - b. Diesel Fuel Testing level B2(-)
Comment (for tests):
Except carbon residue and cold filter plugging point
 - c. Automotive Gasoline Testing level B2
Comment (for tests):
 - d. Lubricant B-2 testing capabilities NO
Comment (for tests):
4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**

SPAIN

1. **Name of laboratory:** Instituto Nacional de Técnica Aeroespacial (INTA) – National Institute of Aerospace Technique (INTA)
Área de Combustibles y Lubricantes – F&L Service

2. **Point of contact and address:** Loreto Pazos Bazán
Head, Fuels and Lubricants Service
INTA
Carretera de Ajalvir, km 4
28850 Torrejón de Ardoz, MADRID, Spain
Phone: (+34) 915 201 504
Fax: (+34) 915 201 272
Email: pazosl@inta.es

3. **Capabilities**

- | | | |
|--|---------------|------|
| 4. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A |
| a. <u>Diesel Fuel</u>
Comment (for tests):
Except polycyclic aromatic hydrocarbons | Testing level | A(-) |
| b. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | A |
| c. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

5. **Laboratory accreditation** NO
Accredited as Center for Technical Activity by the Spanish Ministry of Defence. Accreditation according to ISO 17025 in process.

6. **Participation in Inter-laboratory crosscheck program:** YES

7. **Deployable laboratory (field) capability** NO
Comment (which tests):

8. **Additional testing capability in the fixed laboratory**
Oils, greases, brake fluids and coolants analysis.
Testing level A for NATO F-76 naval distillate fuel.
Testing level A(-) for NATO F-18 aviation gasoline except knock value and performance number.

SWITZERLAND

1. **Name of laboratory:** Intertek (Schweiz) AG
2. **Point of contact and address:** Christian Messerli
Wagistrasse 2
8952 Schlieren ZH
- Internet: www.betriebsstoffe.ch
- Phone: 0041 43 433 78 10
Fax: 0041 43 433 78 19
Email: schlieren@intertek.com

3. **Capabilities**

- | | | |
|---|---------------|------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests):
Microbiological growth, FAME, DIEGME | Testing level | A(+) |
| b. <u>Diesel Fuel</u>
Comment (for tests):
Except oxidation stability | Testing level | A(-) |
| c. <u>Automotive Gasoline</u>
Comment (for tests):
Except oxidation stability | Testing level | A(-) |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests):
Much more than B2 requirement | | YES |
4. **Laboratory accreditation** YES
Swiss Testing, STS-Nr. 452, ISO 17025
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
- B-1 level for aviation gasoline
 - GC-MS, ICP-OES, FTIR, Thermoanalytic (DSC, TGA)
 - Able to carry out special analysis on request
 - Heating oils, coal

TURKEY

1. **Name of laboratory:** MOD Fuels & Lubricants Laboratory
2. **Point of contact and address:** Mrs. Nurçipek BURCAKLI
MSB kalite Yönetime Bölge Başkanlığı
Akaryatkit, Madenî ve Yağ Laboratuvar Md.
Etilik /ANKARA, Turkey
Phone: (+90) 312 384 32 50
Fax: (+90) 312 384 68 82
Email:
3. **Capabilities**
- | | | | |
|----|--|---------------|-----|
| a. | <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B2 |
| b. | <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B2 |
| c. | <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B2 |
| d. | <u>Lubricant B-2 testing capabilities</u>
Comment (for tests):
Much more than B2 requirement | | YES |
4. **Laboratory accreditation** YES
Accredited according to ISO 17025
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory** YES

UNITED KINGDOM

1. **Name of laboratory:** UKSC(G) Petroleum Laboratory
2. **Point of contact and address:** Mr. Allan Knight
 Princess Royal Barrack, Gutersloh
 D-42222 WESTFALEN, Germany
 Phone: (+49) (0)5 241 842 587
 Fax: (+49) (0)5 241 842 557
 Email: contractor3@bfgnet.de

3. **Capabilities**

- | | | | |
|----|---|---------------|-----|
| a. | <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B2 |
| b. | <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B2 |
| c. | <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B2 |
| d. | <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** NO

6. **Deployable laboratory (field) capability** YES
 Comment (which tests):
 B-1 except Cu Corrosion and Existent Gum

7. **Additional testing capability in the fixed laboratory**

UNITED KINGDOM

- 1. **Name of laboratory:** QinetiQ Ltd Fuels & Lubricants Centre
- 2. **Point of contact and address:** Mr. Peter Jones
 Building 442, Cody Technology Park
 FARNBOROUGH, Hampshire, GU14 OLX, UK
 Phone: (+44) (0)1252 37 4703
 Fax: (+44) (0)1252 37 4748
 Email: pljones2@qinetiq.com
- 3. **Capabilities**

a. <u>Aviation Turbine Fuels</u> Comment (for tests):	Testing level	A
b. <u>Diesel Fuel</u> Comment (for tests):	Testing level	A
c. <u>Automotive Gasoline</u> Comment (for tests): Except octane rating (contracted out)	Testing level	A(-)
d. <u>Lubricant B-2 testing capabilities</u> Comment (for tests):		YES
- 4. **Laboratory accreditation**
ISO 9001 NO
- 5. **Participation in Inter-laboratory crosscheck program:** YES
- 6. **Deployable laboratory (field) capability**
Comment (which tests): NO
- 7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** Mechanical Systems Branch, Air Force Research Laboratory
2. **Point of contact and address:** Dr Lewis Rosado
AFRL/ RQTM
1790 Loop Road North
WPAFB, OH 45433-7103 USA
Phone: (+1) 937-255-5568
Fax: (+1) 937-656-7176
Email: lewis.rosado@wpafb.af.mil

3. Capabilities

- | | | |
|---|---------------|-----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B1 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B2 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests):
See paragraph 7 | | YES |

4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** NO
6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. Additional testing capability in the fixed laboratory

Extensive lubricant and bearing R & D facilities. These include chromatography, spectrometry, ferrography, viscometry, electron microscopy, thermal analysis, COBRA, friction, and wear testers, MIL-PRF-7808 (NATO O-148 & O-163) lubricant qualification tests, turbine engine bearing rigs, magnetic bearing rigs, and a T63 turbine engine test facility.

UNITED STATES

1. **Name of laboratory:** Aerospace Fuels Laboratory
2. **Point of contact and address:** Mr. Miguel Acevedo
 AFPA/PTPLA
 2430 C Street, Bldg 70, Area B
 WRIGHT-PATTERSON AFB, OH 45433-7632
 Phone: (+1) 937-255-0739
 Fax: (+1) 937-656-7744
 Email: miguel.acevedo@wpafb.af.mil

3. **Capabilities**

- | | | |
|--|---------------|-------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A |
| b. <u>Diesel Fuel</u>
Comment (for tests):
Except Accelerated Stability | Testing level | B2(-) |
| c. <u>Automotive Gasoline</u>
Comment (for tests):
Except Knock Rating & Oxidation Stability | Testing level | B2(-) |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** YES
 Comment (which tests):
 B2 (+JFTOT & BOCLE) Aviation / Ground fuels, Scuff Load BOCLE, Aviator's Breathing Oxygen,
 Compressed Breathing Air.
 Lab currently located at Al Udeid AB, Qatar.

7. **Additional testing capability in the fixed laboratory**
 Unknown contaminant identification capabilities to include:
 Gas Chromatography (GC), Fourier Transform IR (FTIR) Spectrophotometry, GC-FTIR Spectrophotometry,
 IR Microscopy, Scanning Electron Microscopy, X-Ray Fluorescence Spectrometry, GC-Mass Spectroscopy,
 Induction Coupled Plasma (ICP) Spectrophotometry, Raman Spectroscopy, Ultra-Pressure Liquid
 Chromatography, Polarized Light Microscopy.

UNITED STATES

- 1. **Name of laboratory:** Aerospace Fuels Laboratory
- 2. **Point of contact and address:** Capt. Brent Johnson
 AFPA/PTPLG
 Unit 5161 (Bldg 854)
 J- OKINAWA, Japan
 APO AP 96368-5161
 Phone: (+81) 611-734-1602
 Fax: (+81) 611-734-0584
 Email: brent.johnson.3@us.af.mil

3. **Capabilities**

- a. Aviation Turbine Fuels Testing level A
 Comment (for tests):
- b. Diesel Fuel Testing level B2(-)
 Comment (for tests):
 Except Accelerated Stability
- c. Automotive Gasoline Testing level B2(-)
 Comment (for tests):
 Except Knock Rating & Oxidation Stability
- d. Lubricant B-2 testing capabilities NO
 Comment (for tests):

- 4. **Laboratory accreditation** NO
- 5. **Participation in Inter-laboratory crosscheck program:** YES
- 6. **Deployable laboratory (field) capability** NO
 Comment (which tests):
- 7. **Additional testing capability in the fixed laboratory**

UNITED STATES

1. **Name of laboratory:** Aerospace Fuels Laboratory
2. **Point of contact and address:** Capt. Ainsley Allen
 AFPA/PTPLF
 RAF Mildenhall, Bldg 725
 BURY ST EDMUNDS, Suffolk
 England IP28 8NF
 Phone: (+44) (1) 638-54-5960
 Fax: (+44) (1) 638-54-3626
 Email: ainsley.allen.1@us.af.mil

3. **Capabilities**

- | | | |
|--|---------------|-------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A |
| b. <u>Diesel Fuel</u>
Comment (for tests):
Except Accelerated Stability | Testing level | B2(-) |
| c. <u>Automotive Gasoline</u>
Comment (for tests):
Except Knock Rating & Oxidation Stability | Testing level | B2(-) |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
 Comment (which tests):
7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** USMC Tactical Petroleum Laboratory, Medium (TPLM)

2. **Point of contact and address:** GySgt. Groen
USMC Petroleum School
Ft. Lee, VA

TPLMs are located:

8 th Engineer Support Battalion, Camp Lejuene, NC	(2 labs)
9 th Engineer Support Battalion, Okinawa, Japan	(1 lab)
7 th Engineer Support Battalion, Camp Pendleton, CA	(2 labs)
Maritime Prepositioning Squadron 1	(1 lab)
Maritime Prepositioning Squadron 2	(1 lab)
Maritime Prepositioning Squadron 3	(2 labs)
USMC Petroleum School, Ft Lee, VA	(1 lab)
Marine Corps Logistics Base, Albany, GA (Reserve Equipment Pool.)	(4 labs)

3. **Capabilities**

- | | | |
|--|---------------|----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B1 |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B1 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | C |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** NO

6. **Deployable laboratory (field) capability** YES

Comment (which tests):

TPLM is a deployable laboratory system contained in a standard ISO container.

- Appearance	- Reid Vapor Pressure
- Color	- Flash Point (Pensky-Marten)
- API Gravity	- Water Reaction
- Particulates (CCFD and Gravimetric)	- FSII (B-2)
- Distillation	- Water Separation
- Copper Corrosion	- Conductivity
- Freezing Point	- Free Water (CCFD)

7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** DLA Energy –Americas North Petroleum Laboratory Alaska

2. **Point of contact and address:** Lab Manager Robert Tate
986, Warehouse Road
Joint Base Elmendorf-Richardson, AK 99505, United States

Phone: (+1) 253 240 3343
Cell: (+1) 907 227 1609
Email: Robert.Tate@dla.mil

3. Capabilities

- | | | |
|--|---------------|-------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B2 |
| b. <u>Diesel Fuel</u>
Comment (for tests):
Except Accelerated Stability & Water/Sediment by Centrifuge | Testing level | B2(-) |
| c. <u>Automotive Gasoline</u>
Comment (for tests):
Except Knock Rating & Oxidative Stability | Testing level | B2(-) |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** DLA Energy Europe and Africa Petroleum Laboratory

2. **Point of contact and address:** Chemist Elena Van Meter

Military address: CMR 422, Bldg 320
APO AE 09067

Commercial address: Bldg 320, Rhine Ordnance Barracks
Am Opelkreisel
D-67663 KAISERSLAUTERN, Germany

Phone: (+49) 637- 1408-9702
Fax:
Email: elena.vanmeter@dla.mil

3. Capabilities

- | | | |
|--|---------------|-------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A |
| b. <u>Diesel Fuel</u>
Comment (for tests):
Except Accelerated Stability | Testing level | B2(-) |
| c. <u>Automotive Gasoline</u>
Comment (for tests):
Except Knock Rating & Oxidative Stability | Testing level | B2(-) |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

UNITED STATES

- 1. Name of laboratory:** Defense Logistics Agency Energy Pyeongtaek Petroleum Laboratory, Rep of Korea
- 2. Point of contact and address:** Lab Manager Sim (Sang Man)
COR/QAR Robert Bradley
- Military address: Bldg S-848
APO AP 96271
Camp Humphreys, Rep of Korea
- Commercial address: Camp Humphreys
Bldg S-848
Anjongri, Pyongtaek 17815 Korea
- Phone: (82)(031)-691-0963
Fax:
Email: SimSangMan@ahntech.com
Robert.Bradley@dla.mil

3. Capabilities

- | | | |
|--|---------------|----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests):
Except naphthalene, Hydrogen Content for JP-5) | Testing level | A |
| b. <u>Diesel Fuel</u>
Comment (for tests):
Except Accelerated Stability | Testing level | B2 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B2 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

- 4. Laboratory accreditation** NO
- 5. Participation in Inter-laboratory crosscheck program:** YES
- 6. Deployable laboratory (field) capability** NO
Comment (which tests):
- 7. Additional testing capability in the fixed laboratory** N/A

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** NAVSUP FLC Jacksonville, FL
2. **Point of contact and address:** Mr. Rudy Ignacio
NAVSUP FLC Jacksonville Fuel Department
8808 Somers Road, Bldg 56
JACKSONVILLE, FL 32226-2600
Phone: (+1) 904 696-6556 Ext 501
Fax: (+1) 904 696-8832
Email: Rudy.Ignacio@navy.mil

3. Capabilities

- | | | |
|--|---------------|-----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B1 |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B1 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | NA |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
B-1 level for Naval Distillate Fuels (NATO code F-76)

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** Mid-Atlantic Regional Fuels Laboratory
2. **Point of contact and address:** Mr. David Lee
Mid Atlantic Regional Fuels Laboratory
9673 Virginia Avenue, Bldg W-388
NORFOLK, VA 23511-3323
Phone: (+1) 757 444-2761
Fax: (+1) 757 444-8726
Email: David.L.Lee@navy.mil

3. Capabilities

- | | | |
|--|---------------|-----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B2 |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B2 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B1 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** YES

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**
B-2 level for Naval Distillate Fuels (NATO code F-76)

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** NAVAIRSYSCOM Fuels & Lubricants Chemistry Laboratory

2. **Point of contact and address:** Dr Geoff Eldridge
NAS Patuxent River
22229 Elmer Road, Bldg 2360
PATUXENT RIVER, MD 20670
Phone: (+1) 301 757-3374
Fax: (+1) 301 757-3614
Email: geoffrey.eldridge@navy.mil

3. Capabilities

- | | | |
|--|---------------|-----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | A |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | NA |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**
GC-MS, GC-FID, HPLC-DAD, HPLC-ELSD, HPLC-MS, ICP-AES
A level for Naval Distillate Fuels (NATO code F-76)

UNITED STATES

1. **Name of laboratory:** NAVSUP FLC Pearl Harbor Lab
2. **Point of contact and address:** Benjamin Fegurgur
NAVSUP Fleet Logistics Center
Fuel Department (Code 704), Bldg 1685
300 Neches Avenue
PEARL HARBOR HI 96860-4549
Phone: (+1) 808 473-7989
Fax: (+1) 808 473-7981
Email: Benjamin.Fegurgur@navy.mil

3. **Capabilities**

- | | | |
|--|---------------|-------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B2 |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B2 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B1(-) |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
B-2 level for Naval Distillate Fuels (NATO code F-76)

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** NAVSUP FLC Puget Sound
2. **Point of contact and address:** Mr. Donald Tailleir
NAVSUP FLC Puget Sound
Manchester Fuel Department
7501 Beach Drive East, Bldg 194
PORT ORCHARD, WA 98366, Attn. Don Tailleir
Phone: (+1) 360 476-5737
Fax: (+1) 360 476-8305
Email: Donald.Tailleir@navy.mil

3. Capabilities

- | | | |
|--|---------------|-----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B2 |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B2 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | NA |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
B-2 level for Naval Distillate Fuels (NATO code F-76)

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** NAVSUP FLC San Diego Petroleum Laboratory
2. **Point of contact and address:** Ms. Digna M. Feria
NAVSUP FLC San Diego Petroleum Laboratory
199 Rosecrans Street.
SAN DIEGO, CA 92106
Phone: (+1) 619 553-1326
Fax: (+1) 619 553-1983
Email: Digna.feria@navy.mil

3. Capabilities

- | | | |
|--|---------------|-----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B2 |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B2 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B1 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**
B-2 level for Naval Distillate Fuels (NATO code F-76)
Aromatics (ASTM D1319); Total Organic Halides (ASTM D4744, EPA 9020); Particle Counter (ASTM F658);
Karl Fischer (ASTM D6304)

UNITED STATES

1. **Name of laboratory:** NAVSUP FLC Rota Laboratory
2. **Point of contact and address:** Patricia Vallejo, Chemist
 NAVSUP FLC Rota Spain
 Fuels Division Laboratory
 PSC 819 Box 21
 FBO AE 09645 USA
 Phone: (+34) 956-82-4215
 Fax: (+34) 956-82-4212
 Email: Patricia.Vallejo.SP@eu.navy.mil

3. **Capabilities**

- | | | |
|--|---------------|-------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B2 |
| b. <u>Diesel Fuel</u>
Comment (for tests):
Except water separation and storage stability | Testing level | B2(-) |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | C |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
 Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
 B-2 level for Naval Distillate Fuels (NATO code F-76)

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** NAVSUP FLC Yokosuka, Hachinohe Fuel Laboratory
2. **Point of contact and address:** Mr. H. Honda (Physical Science Technician)
FLC Hachinohe, Code 703.1
Unit 5260
APO AP 96319-5000
Phone: DSN: 226-5777 (prefix 315- from CONUS), Int'l: 0178-41-1037
Fax: Int'l: 0178-43-8914
Email: haruhisa.honda.ja@fe.navy.mil

3. Capabilities

- | | | |
|--|---------------|----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B2 |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | NA |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | NA |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** NAVSUP FLC Yokosuka, Hakozaeki Fuel laboratory
2. **Point of contact and address:** Ms. Ikuko Aki
PSC 473, Box 11
FPO AP 96349-0011
Phone: DSN: 243-0579 (prefix 315- from CONUS), Int'l: 011-81-46-816-0586
Fax: DSN: 243-0552 (prefix 315- from CONUS), Int'l: 011-81-46-816-0552
Email: Ikuko.Aki.JA@fe.navy.mil

3. Capabilities

- | | | |
|---|---------------|-------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests):
Except particulate counting | Testing level | A(-) |
| b. <u>Diesel Fuel</u>
Comment (for tests):
Except lubricity and cetane | Testing level | A(-) |
| c. <u>Automotive Gasoline</u>
Comment (for tests):
In addition RON and MON | Testing level | B2(+) |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
A level for Naval Distillate Fuels (NATO code F-76)

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** NAVSUP FLC Yokosuka, Sasebo Fuel Laboratory
2. **Point of contact and address:** Ms. Megumi Tanaka
FLC Yokosuka, Det. Sasebo
PSC 476, Box 7
FPO AP 96322-0001
Phone: DSN: 252-4134 (prefix 315- from CONUS), Int'l: 011-81-95-650-4134
Fax: DSN: 252-4139 (prefix 315- from CONUS), Int'l: 011-81-95-650-4139
Email: Megumi.Tanaka.JA@fe.navy.mil

3. Capabilities

- | | | |
|--|---------------|-----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B2 |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B2 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B2 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |
| 4. Laboratory accreditation | | NO |
| 5. Participation in Inter-laboratory crosscheck program: | | YES |
| 6. Deployable laboratory (field) capability
Comment (which tests): | | NO |
| 7. Additional testing capability in the fixed laboratory | | |

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** NAVSUP FLC Yokosuka, Guam Area Fuel Laboratory
2. **Point of contact and address:** Ms. G. Rosier (Physical Science Technician)
FLC Guam Area Fuel Division, Code 740
PSC 455, Box 190
FPO AP 96540-1082
Phone: DSN: 343-4089 (prefix 315- from CONUS), Int'l.: 671-343-4089
Fax:
Email: grace.rosier@fe.navy.mil

3. Capabilities

- | | | |
|--|---------------|------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests):
In addition sediments and FSII | Testing level | C(+) |
| b. <u>Diesel Fuel</u>
Comment (for tests):
In addition sediment | Testing level | C(+) |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | NA |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** NAVSUP FLC Yokosuka, Diego Garcia Fuel Laboratory
2. **Point of contact and address:** Mark Joseph
US Naval Support Facility Diego Garcia
Petroleum Testing Laboratory
PSC 466, Box 24
FPO AP 96595-0004
Phone: DSN: 370-4770, prefix 315- from CONUS, Int'l.: 011-246-370-4770 0548
Fax:
Email: Mark.Joseph@kbr.com

3. Capabilities

- | | | |
|--|---------------|-----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B2 |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B2 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B2 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
B-2 level for Naval Distillate Fuels (NATO code F-76)

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** Defense Logistics Agency/Energy Okinawa Petroleum Laboratory, JA
2. **Point of contact and address:** Chemist Ai Nakamoto
Chibana Compound
RTE #74 BLDG 53140
Chibana, Okinawa City
Okinawa, Japan 904-2143
Phone: (81)-808-593-4355
Fax:
Email: [Ai.Nakamoto.Jpn@dla.mil](mailto: Ai.Nakamoto.Jpn@dla.mil)

3. Capabilities

- | | | |
|--|---------------|-----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B2 |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B2 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B2 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** U.S. Army Petroleum Laboratory
2. **Point of contact and address:** Ms. Pauline Kline
U Avenue, Bldg 85-3
New Cumberland, PA 17070
Phone: (+1) 717-770-6511, DSN: 771-6511
Fax: (+1) 717-770-4743
Email: pauline.m.kline.civ@mail.mil

3. Capabilities

- | | | |
|--|---------------|-----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B2 |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B2 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B2 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**
Coal Testing

UNITED STATES

1. **Name of laboratory:** U.S. Army Quartermaster Center and School, Seaman's Petroleum Laboratory

2. **Point of contact and address:** SFC Marlon Haughton
 4th Street, Bldg 11430A.
 FT. LEE, VA 23801-5041
 Phone: (+1) 804-943-7753
 Fax: (+1) 804-734-1235
 Email: marlon.haughton.mil@mail.mil

3. **Capabilities**

- | | | |
|--|---------------|----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B2 |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B2 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B2 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** NO
 Comment (which tests):
 The laboratory has the Petroleum Quality Analysis System - Enhanced (PQAS-E) Laboratory for training purposes only.

7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** Chemical Sampling and Analysis Team
2. **Point of contact and address:** Ms. Kathleen Arnold
400 Collieran Road, Building 363
ABERDEEN PROVING GROUND, MD
21005-5059
Phone: (+1) 410-278-2872
Fax: (+1) 410-278-7930
Email: kathleen.a.arnold12.civ@mail.mil

3. Capabilities

- | | | |
|--|---------------|-----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | B1 |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B1 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B1 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | YES |

4. **Laboratory accreditation** YES

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

UNITED STATES

- 1. **Name of laboratory:** Ft. Hood Petroleum Laboratory
- 2. **Point of contact and address:** WO1 Ricardo Silva
FT. HOOD POL LAB
BLDG 7046
FT. HOOD, TX, 76544-5070
Phone: (+1) 254-286-6989
Fax:
Email: ricardo.j.silva.mil@mail.mil

3. Capabilities

- a. Aviation Turbine Fuels Testing level B1
Comment (for tests):
- b. Diesel Fuel Testing level B1
Comment (for tests):
- c. Automotive Gasoline Testing level B1
Comment (for tests):
- d. Lubricant B-2 testing capabilities NO
Comment (for tests):

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** POL Branch Fuels Laboratory

2. **Point of contact and address:** Mr. Michael Ingram
POL Branch, S & S Division,
BLDG 800, Raider St.
FT. RUCKER, AL, 36351

Phone:

Fax:

Email: michael.r.ingram8.civ@mail.mil

3. **Capabilities**

a. Aviation Turbine Fuels Testing level B1
Comment (for tests):

b. Diesel Fuel Testing level B1
Comment (for tests):

c. Automotive Gasoline Testing level B1
Comment (for tests):

d. Lubricant B-2 testing capabilities NO
Comment (for tests):

4. **Laboratory accreditation** NO

5. **Participation in Inter-laboratory crosscheck program:** YES

6. **Deployable laboratory (field) capability** NO
Comment (which tests):

7. **Additional testing capability in the fixed laboratory**

UNITED STATES

1. **Name of laboratory:** Leatherneck Fuels Laboratory
2. **Point of contact and address:** Mr. Brett Fyfe
Supreme Fuel Manager
Camp Leatherneck
FPO AE 09372
- Phone:
Fax:
Email: brett.fyfe@supreme-group.net

3. **Capabilities**

- | | | |
|---|---------------|-------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests):
Except existent gum | Testing level | B2(-) |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B2 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B2 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** Tarin Kowt Fuels Laboratory
2. **Point of contact and address:** Mr. Tafazwaz Muchechetere
Supreme Fuel Lab Manager
FOB Tarin Kowt
APO AE 09380
- Phone:
Fax:
Email: tafazwaz.muchechetere@supreme-group.net

3. Capabilities

- | | | |
|---|---------------|-------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests):
Except existent gum | Testing level | B2(-) |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B2 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B2 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

UNITED STATES

1. **Name of laboratory:** Fluor Petroleum Laboratory
2. **Point of contact and address:** Mr. Donald Rivers
FLUOR (POL)
Bagram AF, Afghanistan
APO AE 09354
Phone: (+1) 864-252-3381
Fax:
Email: donald.rivers@fluor.com

3. Capabilities

- | | | |
|---|---------------|-------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests):
Except existent gum | Testing level | B2(-) |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | B2 |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | B2 |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

4. **Laboratory accreditation** NO
5. **Participation in Inter-laboratory crosscheck program:** YES
6. **Deployable laboratory (field) capability** NO
Comment (which tests):
7. **Additional testing capability in the fixed laboratory**

NATO/IP UNCLASSIFIED

CENTRAL EUROPE PIPELINE SYSTEM

Country: **FRANCE** (Laboratory of the Central Europe Pipeline System (CEPS))

1. **Name of laboratory:** Oléoducs de Défense Commune (ODC)
2. **Point of contact and address:** Karine Fatet
22B Route de Demigny
F-71 530 CHAMPFORGEUIL
FRANCE
Phone: (+33) (0)3 85 42 10 13
Fax: (+33) (0)3 85 42 13 09
Email: kfatet@trapil.com

3. Capabilities

- | | | |
|--|---------------|-------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A |
| b. <u>Diesel Fuel</u>
Comment (for tests):
In addition viscosity, FAME, sulfur and Cloud Point | Testing level | B1(+) |
| c. <u>Automotive Gasoline</u>
Comment (for tests):
Except oxidation stability, vapour pressure | Testing level | B1(-) |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |
| 4. Laboratory accreditation
A level for F-34 | | YES |
| 5. Participation in Inter-laboratory crosscheck program:
ILS | | YES |
| 6. Deployable laboratory (field) capability
Comment (which tests): | | NO |
| 7. Additional testing capability in the fixed laboratory | | |

NATO/IP UNCLASSIFIED

CENTRAL EUROPE PIPELINE SYSTEM

Country: **BELGIUM** (Laboratory of the Central Europe Pipeline System (CEPS))

1. **Name of laboratory:** Belgium Pipeline Organization (BPO)
2. **Point of contact and address:** Serge Vansina
Tarweschoofkazerne, Parkstraat 36
B-3000 LEUVEN, Belgium
Phone: (+32) 16 248 618
Fax: (+32) 16 248 607
Email: serge.vansina@bpo.nato.be

3. Capabilities

- | | | |
|--|---------------|-----|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests): | Testing level | A |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | NA |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | NA |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |
| 4. Laboratory accreditation
A level for F-34 (not accredited for S-1745 determination) | | YES |
| 5. Participation in Inter-laboratory crosscheck program:
ILS | | YES |
| 6. Deployable laboratory (field) capability
Comment (which tests): | | NO |
| 7. Additional testing capability in the fixed laboratory | | |

CENTRAL EUROPE PIPELINE SYSTEM

Country: **THE NETHERLANDS** (Laboratory of the Central Europe Pipeline System (CEPS))

1. **Name of laboratory:** Defensie Pijpleiding Organisatie (DPO)
2. **Point of contact and address:** Ton Oosterlaken
D.P.O. Divisie Laboratorium
Postbus 715
NL-3171AA POORTUGAAL, The Netherlands
Phone: (+31) 10 506 15 18
Fax: (+31) 10 506 15 11
Email: t.Oosterlaken@dpo.mindef.nl

3. Capabilities

- | | | |
|---|---------------|------|
| a. <u>Aviation Turbine Fuels</u>
Comment (for tests):
Except: mercaptans and naphthalenes | Testing level | A(-) |
| b. <u>Diesel Fuel</u>
Comment (for tests): | Testing level | NA |
| c. <u>Automotive Gasoline</u>
Comment (for tests): | Testing level | NA |
| d. <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

4. **Laboratory accreditation**
B-1 of F-34 YES
5. **Participation in Inter-laboratory crosscheck program:**
ILS YES
6. **Deployable laboratory (field) capability**
Comment (which tests): NO
7. **Additional testing capability in the fixed laboratory**

CENTRAL EUROPE PIPELINE SYSTEM

Country: **GERMANY** (Laboratory of the Central Europe Pipeline System (CEPS))

1. **Name of laboratory:** Fernleitungs-Betriebsgesellschaft mbH, Betriebsservice Idar-Oberstein, Zentrallabor

2. **Point of contact and address:** Pickard Stephanie
 Hohlstrasse 12
 D-55743 IDAR OBERSTEIN, Germany
 Phone: (+49) 6781 206 145
 Fax: (+49) 6781 206 139
 Email: io.labor@fbg.de

3. **Capabilities**

- | | | | |
|----|---|---------------|-------|
| a. | <u>Aviation Turbine Fuels</u>
Comment (for tests):
FAME GC/MS and BOCLE test method | Testing level | A(+) |
| b. | <u>Diesel Fuel</u>
Comment (for tests):
Except CFPP oxidation stability, cetane number,
lubricity, carbon residue, ash content, FAME | Testing level | A(-) |
| c. | <u>Automotive Gasoline</u>
Comment (for tests):
Except oxidation stability, vapor pressure | Testing level | B2(-) |
| d. | <u>Lubricant B-2 testing capabilities</u>
Comment (for tests): | | NO |

4. **Laboratory accreditation** YES

5. **Participation in Inter-laboratory crosscheck program:** YES
 IIS and FAM

6. **Deployable laboratory (field) capability** NO
 Comment (which tests):

7. **Additional testing capability in the fixed laboratory**
 Water content, quantitative for Aviation Turbine Engine Fuel and Diesel Fuels
 Lubricity/Boacle for Aviation Turbine Engine Fuel

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BLANK FORM

1. Name of laboratory:		
2. Point of contact and address:		
	Phone:	
	Fax:	
	Email:	
3. Capabilities		
a. <u>Aviation Turbine Fuels</u>	Testing level	A / B1 / B2 / C
Comment (for tests):		
b. <u>Diesel Fuel</u>	Testing level	A / B1 / B2 / C
Comment (for tests):		
c. <u>Automotive Gasoline</u>	Testing level	A / B1 / B2 / C
Comment (for tests):		
d. <u>Lubricant B-2 testing capabilities</u>		YES / NO
Comment (for tests):		
4. Laboratory accreditation		YES / NO
5. Participation in Inter-laboratory crosscheck program:		YES / NO
6. Deployable laboratory (field) capability		YES / NO
Comment (which tests):		
7. Additional testing capability in the fixed laboratory		

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