

This Research Report is issued under the fixed designation RR: D02-1651. You agree not to reproduce or circulate or quote, in whole or part, this document outside of ASTM International Committee/Society activities, or submit it to any other organization or standards body (whether national, international or other) except with the approval of the Chairman of the Committee having jurisdiction and the written authorization of the President of the Society. If you do not agree to these conditions, please immediately destroy all copies of this document. *Copyright ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428. All rights reserved.*

15 October 2008

**Committee D02 on Petroleum Products and Lubricants
Subcommittee D02.08 on Volatility**

Research Report: D02-1651

**Interlaboratory Study to Establish Precision Statements for Aviation
Turbine Fuel for ASTM D6378-06, Determination of Vapor Pressure
(VPX) of Petroleum Products, Hydrocarbons, and Hydrocarbon-
Oxygenate Mixtures (Triple Expansion Method)**

Technical contact:

Michael Collier,
Petroleum Analyzer Co Lp
21114 Hwy 113
Custer Park, IL 60481
US
Michael.Collier@PACLP.COM

ASTM International
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959

1. Introduction:

Interlaboratory Study 93 was conducted to establish a precision statement for D6378, Determination of Vapor Pressure (VPX) of Petroleum Products, Hydrocarbons, and Hydrocarbon-Oxygenate Mixtures (Triple Expansion Method) for Aviation Turbine Fuel samples.

2. Test Method:

The Test Method used for this ILS is a modified version of D6378-06. To obtain a copy of D6378, go to ASTM's website, www.astm.org, or contact ASTM Customer Service by phone at **610-832-9585** (8:30 a.m. - 4:30 p.m. Eastern U.S. Standard Time, Monday through Friday) or by email at service@astm.org.

3. Participating Laboratories:

The following laboratories participated in this interlaboratory study

1. Grabner Instruments
Messtechnik
Dr.Otto-Neurathgasse 1
A-1220
Vienna
1220
AT
Mr. Matthias Burian
43 1 282 16 27
burian@grabner-instruments.com

2. Parkes Scientific Canada Inc
17360 108 Avenue
Edmonton, Alberta
T5S-1E8
CA
Lance Parkes
001 780 484 1849
info@parkesscientific.com

3. Petrolab Company
Harriman Business Center
1220 Washington Ave
Building 7A /Suite 300
Albany, NY
12226
US
Daniel Moore
(518) 689-0222
Daniel.Moore@ametec.com

4. Stanhope Seta
London Street
Chertsey, Surrey
KT16 8AP
GB
Michael Sherratt
44 0 1932 57 5033
Mike.sherratt@stanhope-seta.co.uk

5. Total
CRoS - Chemin du Canal - BP 22
Solaize
69360
FR
Mr. Metin Kelle
33 478 02 62 27
metin.kelle@total.com

6. Total
Centre de Recherche de Gonfreville
(CRoG)
Departement Optimisation/ Groupe
Bases et Carburan
Z.I du port autonome du Havre,
route industrielle,
Rogerville
76700
FR
Mrs. Pascale Demoment
33 235 55 12 86
pascale.demoment@total.com

7. Total
Lindsey Oil Refinery
Highfields Station Rd.
Ulceby, South Humberside
DN396UA
GB
Colin Matthews
01469 563405
colin.matthews@total.com

8. Umweltbundesamt Wien
Spittelauer Lande 5
Vienna
A-1090
AT
Mr. Eduard Frank
43 1 31304 5106
eduard.frank@umweltbundesamt.at

4. Description of Samples:

There were 12 samples of varying targeted results used for this study. Each sample was prepared and distributed by Gary Lew of Spectrum Standards. Special thanks to Oren Hadaller and Boeing Commercial for gathering the samples. Below is a list of the samples with the corresponding supplier:

1. Jet C
 Provided by Chevron
2. Jet C
 Provided by CP Chemical
3. Jet C
 Provided by BP
4. Jet C
 Provided by Total
5. TS-1
 Provided by BP
6. TS 1
 Provided by Total
7. TS-1
 Provided by Total
8. JP4
 Provided by Conoco Phillips
9. Jet A1
 Provided by Total
10. Toluene
 Provided by Imperial Oil
11. Jet A
 Provided by US Oil
12. Jet A
 Provided by Marathon

5. Interlaboratory Study Instructions

Laboratory participants were emailed the test program instructions. For a copy of the instructions, please see Annex A.