### LABORATORY

OF THE

### INLAND REVENUE DEPARTMENT

OTTAWA, CANADA.

BULLETIN No. 331,

TURPENTINE, AS A PAINT MATERIAL

### NOTES AND COMMENTS.

Under this heading, as occasion arises, the Bulletins issued by this Department will contain, as an appendix, such comment as may seem necessary or advisable upon matters relating to the work of the Department in connection with the administration of the Adulteration Act, the Fertilizers Act, the Feeding Stuffs Act or the Proprietary Medicines Act.

It frequently happens that correspondents ask information regarding the above Acts, of such a nature that the matter in question possesses general interest, and comment upon it would prove acceptable and useful to others than the immediate questioner. In such cases the reply may find a place in these columns. For convenience of reference these notes will be numbered in series.

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### LABORATORY

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### INLAND REVENUE DEPARTMENT

OTTAWA, CANADA.

### BULLETIN No. 331

### Turpentine, as a Paint Material

OTTAWA, January 8, 1916.

J. U. VINCENT, Esq., Deputy Minister of Inland Revenue,

Sir.—By an Order in Council of June 6, 1912, Turpentine for uses in the Arts, was defined as follows:—

### PRIVY COUNCIL, CANADA.

### AT THE GOVERNMENT HOUSE, OTTAWA.

THURSDAY, the 6th day of June, 1912.

### PRESENT

### HIS ROYAL HIGHNESS THE GOVERNOR GENERAL IN COUNCIL:

His Royal Highness the Governor General in Council, in virtue of the provisions of Section 27 of Chapter 133, Revised Statutes of Canada, 1906, "An Act respecting the Adulteration of Food and other Articles," is pleased to order as follows:—

Turpentine is hereby added to Schedule 4 of the above described Act and the definition thereof shall be as hereinafter set forth:—

### STANDARDS FOR TURPENTINE:

I. When turpentine is sold as a drug, for medicinal purposes or to the order of a physician, it shall meet pharmacopoeal requirements as provided by section 7 of the said Act.

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rding the s general to others place in nbered in II. When turpentine is sold under any other conditions than for purposes of medicine, as above, it shall meet the following requirements:—

- (1) It sha'l be entirely free from mineral oil.
- (2) Unless sold as wood turpentine, it shall absorb not less than 340 times its weight of iodine (Hubl Solution and Method). If sold as wood turpentine it shall absorb not less than 240 times its weight of iodine by same method.
- (3) The undissolved (unpolymerized) residue on treatment of 10cc with 40cc of a sulphuric acid containing 20 per cent of the fuming acid, shall not exceed 10 per cent by volume of the sample.
- (4) The refractive index of this residue shall be not less than 1.4950 at 20°C.
- (5) The refractive index of the sample at 20°C. shall lie between 1.4680 and 1.4730.
- (6) The specific gravity of the sample at 20°C, shall not be less than 0.860.
- (7) The initial boiling point shall not be lower than 150°C. under ordinary atmospheric pressure.
  - (8) At least 75 per cent by volume shall distil below 160°C.
- (9) The residue on evaporation over a steam bath shall not exceed two (2) per cent.

RODOLPHE BOUDREAU, Clerk of the Privy Council.

No systematic inspection of the article, as thus defined, has been made since the date of the Order in Council as above. An extensive study of the subject was made in 1910, and the results are published in Bulletin No. 211. At that time the only legal standards existent had regard to turpentine (Oil of Turpentine) as a drug; and although many of the samples then reported failed to meet the requirements as given in the British Pharmacopoeia, it was considered inadvisable to apply these very stringent constants to turpentine sold for purposes other than medicinal.

The present inspection embraces careful and, in most cases exhaustive work upon two hundred and twelve (212) samples which were purchased throughout the Dominion in July, August and September of last year; and were specially obtained from dealers in paint materials. They are therefore to be judged by the standards fixed for turpentine supplied for other uses than as a drug. Fifty (50) of these samples fail to meet the above requirements and must be described as adultered under the Act. (See note on page 5.)

A very large number of complaints from users of turpentine have been received in recent years; and the results of this inspection indicate that ample ground for complaint exists. The chief adulterant is found to be a petroleum product; but rosin oil is also used for the purpose.

Wood turpentine, that is the product obtained by distillation from resinous woods, as distinguished from that obtained in the regular way from the gum of various species of pine, cannot be regarded as an adulteration, provided that it is properly described when offered for sale. It possesses in a high degree, the desirable properties of true turpentine, but is not, in every respect, its equal for paint purposes. Samples indicat-

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ous woods, ous species described ies of true es indicating (by their lower iodine number, and other characters) admixture with wood turpentine, have not been judged as adulterated in this report. It must be noted, however, that vendors are not as careful as they should be in properly distinguishing these articles from true (gum) turpentine.

I would respectfully recommend publication of this report as Bulletin No. 331.

I have the honour to be, Sir, Your obedient servant,

> A. McGILL, Chief Analyst.

OTTAWA, March 22, 1916.

Note.—The term adulteration, as used here, must be understood to mean that the cample does not meet the standards for turpentine fixed by Order in Council of June 6, 1912.

Section 21 of the Adulteration Act, as this appears in the Revised Statutes of 1906, has been introduced into this Act from an older Act of 1894, entitled "An Act in restraint of Fraudulent Sale or Marking."

Section 21, is as follows:-

"No person shall mark, brand or label any article or any package containing any article mentioned in the first column of the fourth schedule to this Act, with the word Pure, Genuine, or any word equivalent thereto, or sell, or offer or expose for sale, any such article or package so marked, branded, stamped or labelled, unless such article or the contents of such package are pure within the meaning of the second column of the said schedule."

It will be noted that, unless the article has been sold as *Pure* or *Genuine*, the penalties imposed by Section 38 (Section 3 of the Act in restraint of Fraudulent Marking) do not apply.

The samples of turpentine herein reported were simply sold as turpentine, and not as pure turpentine or genuine turpentine. It is reasonable to interpret the word turpentine, used simply, as meaning pure or genuine turpentine; but the technical difficulty introduced by the peculiar wording of section 21, makes procedure uncertain, and perhaps unadvisable until such time as an amendment of the Act is secured.

	Inspector's Report. (Is not an expression of opinion.)
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## DISTRICT OF NOVA SCOTIA-R. J. WAUGH, INSPECTOR.

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## DISTRICT OF CAPE BRETON—E. F. McKEEN, INSPECTOR.

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# DISTRICT OF PRINCE EDWARD ISLAND—WM. A. WEEKS, INSPECTOR.

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4401 Geo. Roy, St. Michel	25	St. Charles, 1 pte. 24	30	30	63	-	fre Villeneuve, St. Jé-3 Cho-	magne Taillon, St. Jérôme 3 50	Segouin, St. Agathe des 3 "	ecque, St. Agathe des 3 60	ahaie, St. Eastache, 3 " 30	:	ma-1	se Letourneau, St. 1 "	Dubé, Cap St. Ignace. 1 "	" 15		bout, N. D. Rosaire, 1 "		te. Eu-1
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22 4401 Geo. Roy, St. Michel 3 bots, 25 Martin Senour Co.	4403 J. A. Lemieux, St. Michel 3 " 25	Labonte, St. Charles l pte. 24	St. Charles 1 " 30	4413 J. E. Rouillard, St. Gervais 1 " 36	: 23	:		20	:	Labrecque, St. Agathe des 3 ., 60	30	:	=	St. 1	:	" 15	:	:		:

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3581 Antoine Picard, St. Raphael.... 1 pt. 20 Herman Young, Quebec...

	Inspectors's Report. (Is not an expression of opinion.)
Name and Address of denufacturer or Furnisher as given by the Vendor.	Furnisher.
Name and Address of Manufacturer or Furnias given by the Vend	Manufacturer.
Cost.	Quantity.
	Name and Address of Vendor.
	No. of Sample.
	Nature of Sample.
	Date of Collection.

## DISTRICT OF THREE RIVERS-DR. V. P. LAVALLÉE, INSPECTOR.

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	5 R. L. Ja	8 Ramsay	9 Imperia	5 Can. Pa		5 Can. Pa	O Couillar	0 Ramsay		0 Can. Pa	8 R. E. J	-
	s. 35 R. L. Ja	38 Ramsay Sons, Ltd., Mont-	49 Imperial Oil Co., Montreal.	45 Can. Paint Co., Montreal	45	45 Can. Paint Co., Montreal	40 Co	30 Rs	40	60 Can. Paint Co., Montreal. Bedard & Cie., L'Assomption.	38 R. E. Jamieson, Montreal.	-
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	S. Costello, Joliette 3 Pts. 35 R. L. Js	Edm. Wodon, Joliette 3 " 38 Ramsay			45	George Beaudoin, St. Esprit 3 " 45 Can. Pa		= 00	40		=	
	24 S. Costello, Joliette 3 Pts. 35 R. L. Js	25 Edm. Wodon, Joliette 3 " 38 Ramsay			45	29 George Beaudoin, St. Esprit 3 " 45 Can. Pa		= 00	40		=	
	69124 S. Costello, Joliette 3 Pts. 35 R. L. Js	69125 Edm. Wodon, Joliette 3 " 38 Ramsay			45	69129 George Beaudoin, St. Esprit 3 "	69130 W. Gendreau, St. Roch Achigan, 3 " 40 Couillan		69132 T. A. Mercier, L'Ephiphanie 3 " 40	69133 L. Pauzé, L'Assomption 3 "	=	
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	entine 69124 S. Costello, Joliette 3 Pts. 35 R. L. Js	" 69125 Edm. Wodon, Joliette 3 " 38 Ramsay			45	69129 George Beaudoin, St. Esprit 3 "		= 00	69132 T. A. Mercier, L'Ephiphanie 3 " 40	69133 L. Pauzé, L'Assomption 3 "	=	
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1915.	July 8 Turpentine 69124 S. Costello, Joliette 3 Pts. 35 R. L. Jamieson, Montreal	" 7 " 38 Ramsay	" 69126 Monahan. Bros., St. Lin 3 "	" 69127 Alfred Henri, St. Lin	" 69128 R. Charbonneau, St. Esprit 3 " 45	69129 George Beaudoin, St. Esprit 3 "	" 69130 W. Gendreau, St. Roch Achigan. 3 "	" : 69131 L. Provost, L'Ephi- phanie 3 "	" 69132 T. A. Mercier, L'Ephiphanie 3 " 40	" 69133 L. Pauzé, L'Assomption 3 "	=	

DISTRICT OF EASTERN TOWNSHIPS—J. J. COSTIGAN, ACTING INSPECTOR.

# DISTRICT OF EASTERN TOWNSHIPS—J. J. COSTIGAN, ACTING INSPECTOR.

38 R. E. Jamieson, Montreal.

.. 69184 S. Costello, Joliette..... 3 "

Aug. 7

050 W. 14 052 Jos. 1 052 Jos. 1 053 Phoes 054 Codes 055 J. B. Se 056 A. Se 056 A. Se 056 A. Se 056 A. Se 056 A. Se 056 A. Se 057 Beau	63051 N. 14 63052 Jos. 1 63053 Phoe 63053 Phoe 63054 Code 63055 A. Se 63056 A. Se 63058 J. B. 63058 J. B.	 7 Aug. 11 Turpentine. 63050 W. Bourque, Sherbrooke 3 Pts. 35	63051 N. Labrecque, Sherbrooke 3 40	63652 Jos. Lacombe & File, Sherbrooke 3 40 Brit. Amer. Oil Co., Ltd	63053 Phoenix & Girard, Granby. 3 " 25	63054 Coderre & Fils, Inc., Sherbrooke. 3 45 Standard Oil Corporation	6365 <sup>3</sup> J. B. Dionne, Coaticook 3 3 40	63056 A. Seguin, St. Hyacinthe 3 8 Brit. Amer. Oil Co., Ltd	63657 Beaunoyer & Laline, St. Hya-3 38 Can. Paint Co., Ltd.	63058 J. B. St. Pierre, St. Hyacinthe 3 " 37 Imperial Oil Co	69059 Gendron & Lemay, St. Hyacinthe 3 45 Can. Paint Co.
		3050 W. F	3051 N. La	3052 Jos. I	3053 Phoer	3054 Coder	805 1. B.	3056 A. Se	8657 Beaun	3058 J. B.	9059 Gendr

Aug. 4 Turpentine.         67456 The People's Hardware Co., 152 3 pts         45 Imperial Oil Co.           16         67455 Bernier Hardware Co., 126 84.         3	:		:	:		:				:
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ug. 4 Turpentine.         67456 The Peoples Hardware Co., 152 3 pts         45 Inknown.           1 4         6.7457 Berniar Hardware Co., 152 3 pts         4.5 Imperial Oil Co.           1 6         6.7457 Berniar Hardware Co., 152 8 through Co.         3.8 Can. Paint Co.           1 6         6.7459 O Rollin. & Co., 132 8 through Co.         3.8 Can. Paint Co.           1 6         6.7459 O Rollin. & Co., 132 8 through Co.         3.7 Brit. Amer. Oil Co.           1 6         6.7460 Beavan's Ferres, 33 S. E. Law 3 through Co.         3.0 Georgia Turpentine.           2 8         6.7461 A. Geoffrion, 238 St. Paul st. E., 3 through Co.         3.0 MeArthur Irwin Co.           2 9         6.7463 Levae & Ialonde, 187 Church 3 through Co.         3.0 MeArthur Irwin Co.           2 1         6.7463 Levae & Ialonde, 187 Church 3 through Co.         3.7 Georgia Turpentine Co.           2 1         6.7465 Levae & Ialonde, 187 Church 3 through Co.         3.7 Georgia Turpentine Co.           2 2         6.7465 L. Lafeau, Ltd., 386 Notre 3 through Co.         3.7 Georgia Turpentine Co.           2 2         6.7465 L. Lafeau, Ltd., 386 Notre 3 through Co.         3.7 Georgia Turpentine Co.		:	:	:	:	:				:
ug. 4 Turpentine.         67456 The People's Hardware Co., 152 3 pts         45 Imperial Oil Co.           1 4         67457 Bernier Hardware Co., 152 8t.         3 Imperial Oil Co.           1 6         67458 A. Brouillet, 1389 St. Lawrence Soil., Montreal.         3 S. Can. Paint Co.           1 6         67459 Bernier Hardware Soil., Montreal.         3 S. Can. Paint Co.           1 6         67459 Bernier Boul., Montreal.         3 S. Law 3           1 6         67461 Beavasis Ferres, 33 St. Law 3         4 Imperial Oil Co.           2 3         67461 A. Geoffrion, 233 St. Paul st. E., 3         30 Georgia Turpentine.           2 4         67463 Leav & Lalonde, 187 Church 3         40 Montreal.           2 4         67463 Leav & Lalonde, 187 Church 3         37 Georgia Turpentine Co.           2 4         67463 Leav & Lalonde, 187 Church 3         37 Georgia Turpentine Co.           2 4         67463 Leav, Verdun.         36 Georgia Turpentine Co.           2 4         67464 Leaven A. Lalonde, 187 Church 3         37 Georgia Turpentine Co.           2 4         67465 L. Lalear, Ltd., 386 Notre B.         37 Georgia Turpentine Co.	-	:	:	:	:	:			:	
ug. 4 Turpentine.         67456 The People's Hardware Co., 152 3 pts         45 Unknown.           1 4         67457 Bernier Hardware Co., 126; 38 45 Imperial Oil Co.           1 6         67458 Bernier Hardware Co., 128; 3 45 Imperial Oil Co.           1 6         67459 O. 200; 324 St. Lawrence-St. 3 37 Brit. Amer. Oil Co.           1 6         67459 O. Montreal.           1 6         67460 Bernier Hardware Co., 128; 4 48           1 6         67461 A. Geoffrion, 253 St. Paul st. E., 3 30 Georgia Turpentine.           2 3         67461 A. Geoffrion, 253 St. Paul st. E., 3 30 McArthur Irwin Co.           2 4         67462 Levae & Lalonde, 187 Church 3 30 McArthur Irwin Co.           2 4         67463 Levae & Lalonde, 187 Church 3 37 Georgia Turpentine Co.           2 4         67464 The Raymond Hardware, Ltd., 38 Notre 3 37 Georgia Turpentine Co.           2 4         67465 Levae W. Montreal.           2 5         67465 L. Lalonde, 187 Church 3 37 Georgia Turpentine Co.	:		:	-				:		
ug. 4 Turpentine.         67456 The People's Hardware Co., 152° 3 pts         45 Innerial Conknown.           1 4         67457 Bernier Hardware Boul, Montreal.         45 Innerial Oil Co.           1 6         67458 Bernier Hardware Co., 152° 3 a.         45 Innerial Oil Co.           1 6         67458 A. Breunilet, 1389 St. Lawrence Boul, Montreal.         3 pts         5 Can. Paint Co.           1 6         67459 O. Rollin. & Co., 1324 St. Lawrs.         3 pts         5 Can. Paint Co.           1 6         67460 Boul, Montreal.         45 Brit. Amer. Oil Co.           1 6         67461 A. Geoffrion, 253 St. Paul st. E., 3 pts         3 Georgia Turpentine.           2 3         67462 J. O. Denis, 239 St. Paul st. E., 3 pts         3 McArthur Irwin Co.           2 4         67463 Lewa & Lalonde, 187 Church 3 pts         3 McArthur Irwin Co.           2 4         67463 Lewa & Lalonde, 187 Church 3 pts         3 Georgia Turpentine Co.           3 4 5         1 confirm Royal Colour & Teal.         3 pts           2 5         1 confirm Boyal Colour & Teal.         3 pts           2 6corgia Turpentine Co.         3 pts           3 1 Colour & Teal.         3 pts	:	1	:	. :				:	:	:
ug. 4 Turpentine. 67456 The People's Hardware Co., 152 3 pts 45 Unknown.  1 4 67456 Bernier Hardware Co., 152 8 45 Imperial Oil Co.  1 6 67459 Bernier Hardware Co., 152 8 45 Imperial Oil Co.  1 6 67459 A. Brouillet, 1390 St. Lawrence St. Lawrence Boul., Montreal.  1 6 67459 Beauvais Fereza, 33 St. Law. 3 45 Imperial Oil Co.  1 7 Cance Boul., Montreal.  2 8 67461 A. Geoffrion, 253 St. Paul st. E., 3 30 Georgia Turpentine.  2 9 67463 Leava & Lalonde, 187 Church 3 30 Montr Royal Colour & Varnish Co.  3 1 83 Notre Dame st. W., Mont East.  3 1 6 Georgia Turpentine Co.  3 1 8 Georgia Turpentine Co.  3 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		,	- }	:	:				:	:
ug. 4 Turpentine.         67456 The People's Hardware Co., 152 3 pts         45 Unknown.           1 4         67456 Bernier Hardware Co., 152 3 45 Imperial Oil Co.           1 6         67457 Bernier Hardware Co., 126 3 45 Imperial Oil Co.           1 6         67458 O. 126 Marrene Boul., Montreal.         3 8 Can. Paint Co.           1 6         67459 O. Robilin. & Co., 1324 St. Law-3         3 7 Brit. Amer. Oil Co.           1 6         67450 Boul., Montreal.         3 7 Brit. Amer. Oil Co.           1 6         67451 A. Geoffrion, 253 St. Paul st. E., 3         3 8 Georgia Turpentine.           2 3         67462 Lo. Denis, 239 St. Paul st. E., 3         3 9 McArthur Irwin Co.           2 4         67463 Levac & Lalonde, 187 Church 3         4 0 Mount Royal Colour & Varnish Co.           2 4         67464 The Raymond Hardware, Ltd., 3 7 Georgia Turpentine Co.         343 Notte Dame st. W., Mont.           2 4         67465 L. Lalebur, Ltd., 366 Notre 3         8 7 Georgia Turpentine Co.	:				:					:
ug. 4 Turpentine.         67456 The People's Hardware Co., 152 3 pts         45 Unknown.           1 4         67456 Bernier Hardware Eadl, Montreal.         4	:				:	:				
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ug. 4 Turpentine.         67456 The People's Hardware Co., 152 3 pts         45 Unknown.           1 4         1         67456 Bernier Hardware Co., 152 8t.         3         45 Imperial Oil Co.           1 6         1         67459 Bernier Hardware Co., 126 8t.         3         45 Imperial Oil Co.           1 6         67459 O. Rollin. & Co., 1324 St. Law- 3         3         7 Brit. Amer. Oil Co.           1 6         67460 Rearwas Freres, 338 St. Law- 3         3         7 Brit. Amer. Oil Co.           1 6         67461 A. Geoffrion, 253 St. Paul st. E., 3         3         6 Georgia Turpentine.           2 3         67462 A. O. Denis, 329 St. Paul st. E., 3         3         Montreal.         3           2 4         67464 The Raymond Hardware, Ltd., 3         3         Georgia Turpentine Co.           2 4         67464 The Raymond Hardware, Ltd., 3         3         Georgia Turpentine Co.           1 8         1 67465 Lucke Dame st. W., Montreal.         3         3         3	:	1		:		1		,		
ug. 4 Turpentine.         67456 The People's Hardware Co., 152 3 pts         45 Unknown.           1 4         67456 Remitler Hardware Co., 126 3.         45 Imperial Oil Co.           1 6         67450 Remitler Hardware Co., 126 3.         45 Imperial Oil Co.           1 6         67450 O. Rollin. & Co., 128 St. Law. 3.         37 Brit. Amer. Oil Co.           1 6         67450 O. Rollin. & Co., 132 St. Law. 3.         37 Brit. Amer. Oil Co.           1 6         67460 Remarks Frerex 3.85 St. Law. 3.         46 Imperial Oil Co.           1 8         67461 A. Geoffrion, 253 St. Paul st. E., 3.         30 Georgia Turpentine.           2 8         67462 O. Denix, 398 St. Paul st. E., 3.         30 McArthur Irwin Co.           2 1         67462 Lower & Lalonde, 187 Church, 3.         30 McArthur Irwin Co.           2 1         67464 The Raymond Hardware, Ltd., 3.         37 Georgia Turpentine Co.           2 1         67464 The Raymond Hardware, Ltd., 3.         37 Georgia Turpentine Co.           2 1         67464 The Raymond Hardware, Ltd., 3.         37 Georgia Turpentine Co.           2 1         67464 The Raymond Hardware, Ltd., 3.         37 Georgia Turpentine Co.	:	:	:	:	:				:	
ug. 4 Turpentine.         67456 The People's Hardware Co., 152 3 pts         45 Unknown.           1 4         67457 Bernier Hardware Co., 152 3.         45 Imperial Oil Co.           1 6         67458 Bernier Hardware Co., 126 3.         3 Can. Paint Co.           1 6         67459 O. Rollin. & Co., 1294 St. Law.         3 S. Can. Paint Co.           1 6         67460 Beauvais Frence Sud., Montreal.         3 Frit. Amer. Oil Co.           1 6         67461 A. Geoffrion, 253 St. Paul st. E., 3         45 Imperial Oil Co.           2 8         67461 A. Geoffrion, 253 St. Paul st. E., 3         30 Georgia Turpentine.           2 9         67462 J. O. Denis, 239 St. Paul st. E., 3         30 McArthur Irwin Co.           2 1         67463 Levze & Lalonde, 187 Church, 3         37 Georgia Turpentine Co.           2 2 2 3.         67464 Like Raymond Hardware, Ltd., 366 Notre St. Church, 346 Notre Bane st. W., Montreal.         37 Georgia Turpentine Co.	:	:	-		:	- ;	:	4	- ;	
ug. 4 Turpentine. 67456 The People's Hardware Co., 152 3 pts 45 Unknown  1 4 67451 Bernere Boul., Montreal.  1 6 67452 Berniler Hardware Co., 155 8t.  1 16 67459 O. Rollin. & Co., 132 8t. Law-  1 16 67459 O. Rollin. & Co., 1324 8t. Law-  1 16 67459 O. Rollin. & Co., 1324 8t. Law-  1 17	:	-		-	•		:	12	3	
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ug. 4 Turpentine. 67456 The People's Hardware Co., 152 3 pts 45 Unknown.  1 4 67457 Bernier Hardware Co., 152 8t. 3 45 Imperial O Lawrence Boul., Montreal.  1 6 67458 Devoliet, 1390 St. Lawrence 3 38 Can. Paint Fence Boul., Montreal.  1 6 67459 O. Rollin. & Co., 1324 St. Lawr 3 37 Brit. Amerence Boul., Montreal.  1 6 67450 A. Geoffron, 233 St. Lawr 3 45 Imperial O Montreal.  2 8 67461 A. Geoffron, 233 St. Paul st. E., 3 30 Georgia T Montreal.  2 9 67463 Lewe & Lalonde, 187 Church 3 30 MeArthur Montreal.  2 1 67464 The Raynond Hardware, Ltd., 3 37 Georgia T Real.  2 1 67465 Lewe Raynond Hardware, Ltd., 3 37 Georgia T Real.  2 1 67465 L. L. Ladeur, Ltd., 366 Notre Brit.  2 1 67465 L. L. Ladeur, Ltd., 366 Notre Brit.  3 1 37 Georgia T Real.	· :	0 11	Co.	0	11 0	Lin	Ir	yal	10°.	
ug. 4 Turpentine. 67456 The People's Hardware Co., 152-3 pts 45 Unknow St. Lawrence Boul., Montreal.  16 " 67457 Bernier Hardware Co., 126 3 " . 45 Imperial Lawrence Boul., Montreal.  16 " 67459 O. Rolline. & Co., 129 St. Lawrence Boul., Montreal.  16 " 67459 O. Rolline. & Co., 139 St. Lawrence Boul., Montreal.  16 " 67451 A. Geoffron, 253 St. Paul st. E., 3 " . 37 Brit. A rence Boul., Montreal.  18 "	vn.	0	int	me	0	T	H	Ro	T	
ug. 4 Turpentine. 67456 The People's Hardware Co., 152 3 pts 45 Unix  1 4 67457 Bernier Hardware Co., 125 3 pts 45 Imp  Lawrence Boul., Montreal.  1 6 67459 Bernier Hardware Co., 125 3 45 Imp  Lawrence Boul., Montreal.  1 6 67459 O. Rollin. & Co., 1324 St. Lawrence.  1 7 6 67459 O. Rollin. & Co., 1324 St. Lawrence.  1 8 67469 Beauvais Frence Boul., Montreal.  2 8 67461 A. Geoffrion, 23 St. Paul st. E., 3 30 George Boul.  2 9 67463 Lose Boul., Montreal.  2 1 67463 Lews & Lalonde, 187 Church, 3 30 McA  Montreal.  2 1 67464 The Raymond Hardware, Ltd., 3 37 George Boul.  2 1 67464 The Raymond Hardware, Ltd., 3 37 George Boul.  2 1 67465 L. Labeur. Ltd., 366 Notre 3 37 George Lance R. W., Mont. Real.  2 1 67465 L. Labeur. Ltd., 386 Notre 3 37 George Lance R. W., Montreal.  3 1	non	eria	Pa	V	ria	gis.	rth	ıt	gia	:
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ug. 4 Turpentine 67456 The People's Hardware Co., 152 3 pt. Lawrence Boul., Montreal 16 " 67457 Bernier Hardware Co., 156 St. 3 arwence Boul., Montreal 3 " 16 " 67459 O. Rollin. & Co., 1324 St. Lawrence Boul., Montreal 16 " 67459 O. Rollin. & Co., 1324 St. Lawr 16 " 67469 D. Rollin. & Co., 1324 St. Lawr 2 " 16 " 67461 A. Geoffrion, 353 St. Paul st. E., 3 " 17 " 17 " 17 " 17 " 17 " 17 " 17 "	15		_					_		
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	Inspector's Report. (Is not an expression of opinion.)
Name and Address of anufacturer or Furnisher as given by the Vendor.	Furnisher.
Name and Add Manufacturer or F as given by the	Manufacturer.
Cost.	Quantity.
	Name and Address of Vendor.
	No. of Sample.
	Nature of Sample.
	Date of Collection.

## DISTRICT OF VALLEYFIELD—J. J. COSTIGAN, ACTING INSPECTOR.

	35 Can. Paint Co	25 Imperial Oil Co	45 Can. Paint Co		200	98	32	01	30 McArthur Irwin, Montreal	28
				=	=		=		÷	
	bts.	=	**	**						-
	57991 L. P. Beaulne, Hawkesbury 3 pts.	57992 J G. Higginson, Hawkesburye 3 ".	57993 J. O. Phenix, Hawkesbury 3	57994 A. Morand, Valleyfield, 3	57995 V Leger, Valleyfield 3	57996 Besner & Chasle, Valleyfield 3	57997 N. Langevin, Valle field 3 "	57998 A. Lebeuf, Valleyfield 3	57999 Cote & Cie, St. Johns 3	58000 C. O. Gervais & Fils, St. Johns 3
	Furpentine 57991 L. P. Beaulne, Hawkesbury 3 pts.	" 57992 J. G. Higginson, Hawkesburye 3 " 25 Imperial Oil Co	" 57993 J. O. Phenix, Hawkesbury 3 " 45 Can. Paint Co	" 57994 A. Morand, Valleyfield 3	" 57995 V Leger, Valleyfield 3	57996 Besner & Chasle, Valleyfield 3	" 57997 N. Langevin, Valle feld 3	57998 A. Lebeuf, Valleyfield 3 "	" 3 " 30 McArthur Irwin. Montreal	" 58000 C. O. Gervais & Fils, St. Johns 3 " 35
1915.	July 22 Turpentine., 57991 L. P. Beaulne, Hawkesbury 3 pts. 35 Can. Paint Co	22 " 77992 J G. Higginson, Hawkesburye 3 "		27 57994 A. Morand, Valleyfield 3	27 57995 V Leger, Valleyfield 3	27 57996 Besner & Chasle, Valleyfield 3	27 57997 N. Langevin, Valle field 3	27 57998 A. Lebeuf, Valleyfield 3	28 57999 Cote & Cie, St. Johns 3	28 58000 C. O. Gervais & Fils, St. Johns 3

DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

July 16 Turpentine. | 51693 E. J. McGarry, Renfrew... ... | 3 pts. | 35 Ottawa Paint Works.

Manufacturer.

### DISTRICT OF OTTAWA-J. A. RICKEY, INSPECTOR.

.. 57999 Cote & Cie, St. Johns. .. 3 " 30 McArthur Irwin. Montreal ... 58000 C. O. Gervais & Fils, St. Johns. 3 " 35 ...

orks, Manufacturer.	, Mon.	ntreal	0	e Co., " , "	itreal	, Tor	ks, Ot-	ntreal	ks, Ot-	real	
Pa	mie	0	,0.,	T.	C	60	ain	0 3	ain	Ç	Tor
Ottawa 1	R. C. Jai	Can. Pain	Can, Oil C	Georgia	Can. Pain	E. Fieldin	Ottawa P	Can Pain	Ottawa P	Can. Pain	Midland,
35 Ottawa	45 R. C. Jan	45 Can. Paint Co., Montreal.	40 Can. Oil C	40 Georgia	45 Can. Pain	45 E. Fieldi	37 Ottawa Paint Works, Ot-	35 Can Paint Co., Montreal.	35 Ottawa P	40 Can. Pain	30 Midland,
pts. 35 Ottawa	8 45 R. C. Jan	;	3 ., 40 Can. Oil C	" 40 Georgia	3 45 Can. Pain	a 45 E. Fieldin	-	_	" 35 Ottawa P	awa.	30 Midland, Toronto
51693 E. J. McGarry, Renfrew 3 pts. 35 Ottawa	3 45 R.	:	51696 The Jennings Co., Renfrew 3 " 40 Can. Oil C	51697 A. G. Dubbie & Co., Brockville 3 " 40 Georgia	51698 B. D. Steacy, Brockville 3 " 45 Can. Pain	51699 Dunlop & Co., Ltd., Pembroke 3 " 45 E. Fieldji	-	_	63691 W. J. Muirhead, Carleton Place. 3 " 35 Ottawa P	63692 Taylor Bros., Carleton Place 3 " 40 Can. Pain	
me. 51693 E. J. McGarry, Renfrew 3 pts. 35 Ottawa	51694 Devine & Legree, Renfrew 3 " 45 R. C. Jan	;	51696 The Jennings Co., Renfrew 3 " 40 Can. Oil Co., Toronto	51697 A. G. Dobbie & Co., Brockville 3 " 40 Georgia Turpentine Co.,	51698 B. D. Steacy, Brockville 3 " 45 Can. Paint Co., Montreal	51699 Dunlop & Co., Ltd., Pembroke 3 " 45 E. Fielding & Son, Tor-	63689 Griffin & Brennan, Armprior 3 37 Ottawa P	63690 John S. Moir, Arnprior 3 " 35 Can Pain	63691 W. J. Muirhead, Carleton Place. 3 " 35 Ottawa Paint Works, Ot	63692 Taylor Bros., Carleton Place 3 " 40 Can. Paint Co. Montreal	63693 B. H. Smart, Brockville 3 " 30 Midland,
urpentine . 51693 E. J. McGarry, Renfrew 3 pts. 35 Ottawa		:	" 51696 The Jennings Co., Renfrew 3 " 40 Can. Oil C	" 51697 A. G. Dubbie & Co., Brockville 3 " 40 Georgia	" 51698 B. D. Steacy, Brockville 3 " 45 Can. Pain	" 51699 Dunlop & Co., Ltd., Pembroke 3 " 45 E. Fieldji	-	_	" 63691 W. J. Muirhead, Carleton Place. 3 " 35 Ottawa P	" 63692 Taylor Bros., Carleton Place 3 " 40 Can. Pain.	
July 16 Turpentine. 51693 E. J. McGarry, Renfrew 3 pts. 35 Ottawa Paint Works,		:	16 " 51696 The Jennings Co., Renfrew 3 " 40 Can. Oil C	17 " 51697 A. G. Dubbie & Co., Brockville 3 " 40 Georgia	17 " 51698 B. D. Steacy, Brockville 3 " 45 Can. Pain	31 " 51699 Dunlop & Co., Ltd., Pembroke 3 " 45 E. Fieldji	-	_	13 63691 W. J. Muirhead, Carleton Place. 3 35 Ottawa P	13 " 63692 Taylor Bros., Carleton Place 3 " 40 Can. Pain.	

# DISTRICT OF KINGSTON-JAMES HOGAN, INSPECTOR.

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Ju	ly 2	Ta I	rpentin	ne.	10201	Savag	e & V	Vigh	tman	ı, Ki	ngston.		pts	200	July 28 Turpentine. 70251 Savage & Wightman, Kingston 3 pts 18 Sandesron & Percy Co.,
	21	28	:	:	70252	Robin	nso	n I	Sros.	, Ki	ngston.	60	:	27	70252 Robinson Bros., Kingston 3 27 J. H. Merin, Toronto
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	62	28	:	:	70256 F	H. W	7. M	Iars	hall	l, Ki	ngston	00	:	45	70256 H. W. Marshall, Kingston 3 " 45 Georgia Turpentine Co.,
	63	28	:	. :	70257	. B.	Bur	nt &	Co.	, Kin	70257 J. B. Bunt & Co., Kingston 3 ".		:	35	Montreal. Dalton & Son, Kingston
	63	88	:	:	70258	V. A.	M	teh	e11,	King	70258 W. A. Mitchell, Kingston, 3 "	60		30	
	63	28	:	:	70259 E	Sotsfo	ord 8	E N	icol, 1	King	ston	8	:	45	70259 Botsford & Nicol, Kingston 3 '45 J. A. Casey Co., New York
	62	28	:	;	70260 N	IcKe	Ivey	*	Birch	, Ki	ngston	00	:	30	70260 McKelvey & Birch, Kingston 3 " 30 Oil & Rawson Co. Savanna,

	Inspector's Report. (Is not an expression of opinion.)	
d Address of r or Furnisher the Vendor.	Furnisher.	
Name and Manufacture as given by	Manufacturer.	
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	Name and Address of Vendor.	
	of Sample.	.oN
	Nature of Sample.	
	te of Collection.	Dat

### DISTRICT OF TORONTO- H. J. DAGER, INSPECTOR.

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		Can. Oils, Ltd., Toronto			70078 James Hugill, Weston. 3 ., 35 Glidden Varnish Co., To-	70079 E. W. Chard, 324 College St., 3 30 Sherwin. Williams Co.,	Ltd., loronto. Royal Commission, To-	Imperial Oil Co., Ltd.,	70082 G. H. Wall, 305 Roncesville Ave. 3 25 Turpentine Producers,	" " TOTORIO.	
	25		25	30	35 6	30	25	30	25 T	22	_
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	W.	R. H	Toms	Node	Jam	E.	T. I.	C P	(F. H	J. W	
	7007	79075 R. H. Hudson, 1199 St. Clair, 3 25	70076 Toms Bros., 1612 Danforth Ave., 3 25	70077 Nodon, Hallet & Johnson, 1623	2007	2007	70080 T. H. Boyd, 2252 Queen St. E., 3 25	70081 C. G. Bailey, 1958 Queen St. E., 3 30	70082	70083 J. W. Poronto. W. Toronto.	
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	Furpentine		ε,	:	ı		=			:	
1915.	Aug. 8 Turpentine 70074 W. A. Stephenson, 28 Vaughan 3 bots. 25	. " 01	11 ".	15 "	14	16	21	17 "	18	20	

## DISTRICT OF HAMILTON-H. J. DAGER, ACTING INSPECTOR.

		Montrea
		r Irwin Co.,
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Name and Address of the Owner, where the Owner, which is the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the O		July 21 Turpentine

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70083 J. W. Peacock, 1026 Queen St. 3 ., 25 Ltd., Toronto.

July 21 Turpentine.         70041 C. Chapman, 208 St. Paul St., 3 pts.         40         Pine hen & Johnson Co., St. Chapman, 208 St. Paul St., 3 pts.         40         Pine hen & Johnson Co., Empire Commission Co., Tootal Rara Falls.           " 22         " 70042 W. R. McKenzie & Co., Niagara So., Thorold.         3 " 35
C. Chapman, 208 St. Paul St., 3 pts. 46. St. Catharines. W. R. McKenzie & Co., Niagara 3 66. on-the-Lake. L. I. Hunk & Son, Thorold 3 38. G. H. Clark, 54 Eric Ave., Nia- 3 bots. 38. Archerta & Henry, 485 Victoria 3 38. Arch., Niagara Falls. Pringle & Son, Nobleton 3 pts. 45. W. B. Gardner & Sons, Bolton. 3 bots. 38. W. E. Anthony, Brampton. 3 660. J. W. Kennedy, Georgetown 3 38. Arcade. Ltd., 45 James St. 3 38.
C. Chapman, 208 St. Paul St., St. Catharines. W. R. McKenzie & Co., Niagara 3 on-the-Lake. I. I. Hunt & Son, Thorold 3 for Hunt & Son, Thorold 3 for Are., Nia-By Rara Falls. Henry, 485 Victoria 3 Are., Niagara Falls. Pringle & Sons, Bolton. 3 for B. Gardner & Sons, Bolton. 3 for W. E. Anthony, Brampton. 3 for W. E. Anthony, Brampton. 3 Areade, Ltd., 45 James St. 3 Areade, Ltd., 45 James St. 3
C. Chapman, 298 St. Paul St. Catharines. W. R. McKenzie & Co., Nia Lo. II. Hunt & Son, Thorold G. H. Clark, 54 Erie Ave., gara Falls. McKersts & Henry, 485 Vice Ave., Niagara Falls. Pringle & Son, Nobleton W. B. Gardner & Sons, Boll W. E. Anthony, Brampt J. W. E. Anthony, Brampt J. W. Kennedy, Georget Avenede, Ltd., 45 James Avende.
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### DISTRICT OF WINDSOR—JOHN TALBOT, INSPECTOR.

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Aug	6	Turpenti	ine.	Aug. 9 Turpentine. 5464 Odell & Mitchell, London 3 bots. 20 West, Rosin & Turpentine	20	West, Rosin & Turrentine	
=	9.	:	;	54646 Love Hardware Co 3 "	25		
1	6.	:	:	54648 J. G. Steele & Co., London 3 "	25		Howden Hardware Co.,
=	10	:	:	54650 A. Westman, London 3 "	25		Taylor & Lowenstein & Co.
=	10	:	:	54652 Kilpatrick Bros., London 3 "	20		Howden Hard ware Co.,
:	10	:		54654 F. E. Jones, London 3 "	10	10 West, Rosin & Turpentine	Tolidon.
=	12	:	:	54657 Fred N. Karn, Woodstock 3 "	20	Co., Detroit.	
=	12	:	:	54659 J. N. Smiley, Woodstock 3 "	20		Howden Hardware Co.,
=	12	:	:	54662 Davidson & McInnes, Woodstock. 3	25		London. International Varnish Co.,
=	13	:		54664 McMurty Hardware, St. Thomas 3 " 124 West; Rosin & Turpentine	12	West, Rosin & Turpentine	1cronto.
=	13	:	:	54666 Jackson & Firth, St. Thomas 3 "	30	30 Sherwin-Williams Co.,	
:	13	:		. 54670 A. E. Campbell, St. Thomas 3 "	17	172	Hobb Hardware Co.,

	Inspector's Report. (Is not an expression of opinion,
Name and Address of lanufacturer or Furnisher as given by the Vendor.	Furnisher.
Name and A Manufacturer as given by t	Manufacturer.
Cost.	Quantity.
	Name and Address of Vendor.
	No. of Sample.
	Nature of Sample.
	Date of Collection.

# DISTRICT OF MANITOBA-J. B. COSGROVE, TEMPORARY INSPECTOR.

	Miller-Morse, Winnipeg	Can. Paint Co., Winnipeg	Can. Oil Co., Winnipeg.		Wood, Valance Co., Winning	G. F. Stephen, Winnipeg	Snowdon Oil Co.	Sherwin, Williams, Winni	peg. Merrick Anderson, Winnipeg	Scarfe & Co., Winnipeg
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	8	99	09	09	45	99	09	99	99	-9
	pts	=	:	=	:		=	- :	=	:
	Aug. 4 Turpentine. 61325 Walter Johnson, 533 Sherbrooke, 3 pts. 60	Winnipeg 61326 Andrews & Sons, Victor St., Win-3 " 60	61327 R. Steiman Hardware Co., 5413	Selkirk Ave., Winnipeg 61329 Tulley & Davey, 1772 Main St., 3 "	61331 R. Thornton, 262 Tache Ave., 3	Norwood. 61333 Allaire & Blean, 568 Tache Ave., 3 ., 60	St. Boniface. 3 , 60	61338 Myers & Williams, 655 10th St., 3	61339 A. J. Bond & Co., 1763 Portage 3 60	Ave., St. James.  61310 Aikenhead-Clark Hardware Co., 3 60 Boyd Building, Winninger.
	61323	61326	61327	61329	61331	61333	61334	61338	61339	61340
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1915.	4 Turpentine	=	=	=	40	10	:	6	12 "	12

# DISTRICT OF SASKATCHEWAN-L. H. HALL, TEMPORARY INSPECTOR.

Scarfe & Co, Winnipeg ...

61399 A. J. Bond & Co., 1763 Portage 3 ... (60 ... 61319 Akenback-Clark Hardware Co., 3 ... (60 ... 61340 Akenback-Clark Hardware Co., 3 ... (60 ...

peg. Merrick Anderson, Winnipeg

	Continental Oil Co.		Wignipeg Oil Co., Melville						
Unknown	Continental Oll Co	Winnipeg Oil Co., Regina	Winnipeg Oil Co., Melville		Sherwin Williams Co., Win-	Winnipeg OilCo., Yorkton	G. F. Stephens & Co., Win-	nireg.	Prairie City Oil Co., Saska- toon.
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3 pts	3		: 23	= 23	£ 50	: :	.=	- 20	=
July 19 Turpentine 66394 C. T. Laird, Regina 3 pts	66395 Regina Trading Co., Regina 3 "	66396 Armstrong Saythe & Dowswell, 3	66398 John Goebel, Melville 3	65406 E. Smith, Melville 3 "	66402 Wm. Anderson Melville 3 "	66410 Chas. Beck, Yorkton	66412 D. A. Sands, Yorkton	. 66416 Isbister & Pretty, Saskatoon 3	66418 Fawcett Hardware Co., Saska-3
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Furper	=	:	1	=	=	=	:	ī	:
. 19	19	19	20	20	20	21	21	22	23
July	:	=	:	:	:	:	=	=	:

## DISTRICT OF ALBERTA-A. W. R. MARKLEY, INSPECTOR.

t. Amer. Paint Co., Ed	monton. G. F Stephens Co., Winni		nonton. urshall Wells Alberta Co.,	Edmonton. F. Stephens Winnipeg.	rshall Wells Winni eg	F. Stephens Co., Winni-	rie City Oil Co., Win-	peg. rary Paint & Glass Co.
5 Brit	G. 1	0 Brit	0 Mar	G. F	5 Mar	G. F	Prai	Calg
	9	9	9	10	4	4	ñ	9
3 pt		50	50	= ==	= =	33 ::	3	23
-non-	nton.	:	Ed.	- 5	÷		.;	al-
246 Northern Hardware Co., Edn	ton. 247 Chown Hardware Co., Edmor	248 J. A. Werner, Edmonton	249 Somerville Hardware Co.,	250 Geo. D. Wallace, Ltd., Wetas	Win. Morrison & Johnstone, Ltd., L.	252 A. M. Campbell, Lacombe	233 J. H. Ashdown Hardware Co	254 Marshall Hardware, Ltd., C
. 52246 Northern Hardware Co., Edn	52247 Chown Hardware Co., Edmon	52248 J. A. Werner, Edmonton	52249 Somerville Hardware Co., Fd.3 60 Marshall Wells Alberta Co.,	. 52250 Geo. D. Wallace, Ltd., Wetas	52251 Morrison & Johnstone, Ltd., La	52252 A. M. Campbell, Lacombe 3 " 40 G. F. Stephens Co., Winni	52253 J. H. Ashdown Hardware Co	. 52254 Marshall Hardware, Ltd., C
ntine 52246 Northern Hardware Co., Edn	52247 Chown Hardware Co., Edmonton. 3 , 60 G. F. Stephens Co., Winni	52248 J. A. Werner, Edmonton 3 " 60 Brit, Amer. Paint Co., Ed.	. 52249 Somerville Hardware Co.,	52250 Geo, D. Wallace, Ltd., Wetaski-3 50 G.F. Stephens Winnipeg.	52251 Wein. & Johnstone, Ltd., La. 3 45 Marshall Wells Winni eg	. 52252 A. M. Campbell, Lacombe	52233 J. H. Ashdown Hardware Co., 3 30 Prairie City Oil Co., Win-	52254 Marshall Hardware, Ltd., Cal. 3 60 Calgary Paint & Glass Co
Jurpentine., 52216 Northern Hardware Co., Edn.	" 52247 Chown Hardware Co., Edmon	" 52248 J. A. Werner, Edmonton	" 52249 Somerville Hardware Co.,	" 52259 Geo. D. Wallace, Ltd., Wetas	" 52251 Morrison & Johnstone, Ltd., L.	" 52252 A. M. Campbell, Lacombe	" 52253 J. H. Ashdown Hardware Co	52254 Marshall Hardware, Ltd., C.
Aug. 10 Turpentine., 52246 Northern Hardware Co., Ednou- 3 pts., 45 Brit. Amer. Paint Co., Ed-	10 ". 52247 Chown Hardware Co., Edmon	10 52248 J. A. Werner, Edmonton	10 " 52249 Somerville Hardware Co.,	12 " 52250 Geo. D. Wallace, Ltd., Wetas	13 52251 Morrison & Johnstone, Ltd., L.	13 " . 52252 A. M. Campbell, Lacombe	29 " 52253 J. H. Ashdown Hardware Co	20 52254 Marshall Hardware, Ltd., C.

	Inspector's Report. (Is not an expression of opinion.)
Address of r or Furnisher the Vendor,	Furnisher.
Name and Address Manufacturer or Furn as given by the Vend	Manufacturer.
Cost.	Quantity.
	Name and Address of Vendor.
	No. of Sample.
	Nature of Sample.
	Date of Collection.

## DISTRICT OF ROCKY MOUNTAINS-THOS. PARKER, INSPECTOR.

						61875 Marlatt & McKenzie, Kamloops. 3 50 Imperial Oil Co., Vancou-				
-	<u>:</u>	Spo-	ely,	gatt,	ely,	:	:	mish	are	
		ngham,	McFe	ice & Legs	McFe			& Var	gham Hardw Westminster	1000
		& Dilli	McLennan & McFeely,	Vancouver. Wood, Vallance & Leggatt,	McLennan & McFeely,	vancouver.		Johnson Paint & Varnish	Cunningham Hardware	
	-	Jones	McLenna	W OO	McLe	v a	-	Johns	Cuni	
	July 20 Turpentine 61847 F. Wilmes, Trail 3 pts. 60 Sherwin - Williams Co.,	Jones & Dillingham, Spo				o., Vancou				60 Imperial Oil Co., Vancou-
	Will					I OII C				al Oil C
	Sherwin -		:	:		Imperia	ver.	:		Imperia ver.
	9	40	20	99	20	20	50	65	20	
	pts.	=	=	:	=	:	:	÷	:	=
			::	61867 Vernon Hardware Co., Vernon 3	61872 Wilcox Hall Co., Kamloops 3 "	pops. 3	61876 N. S. Dalgleish, Kamloops 3	61882 Merritt Mercantile Co., Merritt. 3 "	61883 Armstrong's Departmental Stores 3	61886 A. Jackson, Merritt 3 "
		nd	on	Co., Ve	nloops.	Kaml	doolm	., Mer	ental S	
	ail	Rossla	, Verne	ware	o., Kai	Kenzie	ish, Ka	ntile Co	epartm	lerritt
	nes, Tr	Bros.,	Megaw	Hard	Hall C	& Mc	algle	Merca	ong's D	W ,ucs
	F. Will	Hunter	W. R.	Vernon	Wilcox	Marlatt	N. S. D	Merritt	Armstr	A. Jack
	61847	61854 Hunter Bros., Rossland 3	61866 W. R. Megaw, Vernon 3 "	61867	61872	61875	61876	61882	61883	98819
	me .	:	:		:	:	:	:	:	:
	nti		=	=	=	:	:	:	:	:
	Curpe									
1915.	20 Turpe	20	Aug. 6	9	10	10	10	16	16	16

DISTRICT OF VANCOUVER-E. J. MORGAN, INSPECTOR.

July 28 Turpentine | 55348 W. C. Stearman, 613 Granville 3 bots, 60 Imperial Oil Co., Vancou-

## DISTRICT OF VANCOUVER-E. J. MORGAN, INSPECTOR.

16

-				:				1		
				:		Sold as near turpentine.	55354 Crown Paint Co. 24 Cordova St., 3 " 50 Texas Turpentine Co. P. V. Processor Treat Paint Co. 25 Cordova St., 5 " Densi Treat Tr			
	-	:	:	:	-	turpe		-	:	
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				niver	•	:		nver	Co.	
		:	-	Vanc		:		Vano	eely ?	
	:			Co.,		:	1	Co.,	McF	
		:	:	aint	-			aint	un &	
	:		- :	wn P			i	vn P.	enns	valicouver.
-	:	:	:	Cro	:	1	-	Cro	McI	
	ancou-	Paint	Mon-		ancou-	, Mon-	Co.,		:	Mon-
	Yo., V	ican	Son,	:	V., V	& Co.	ntine			Son,
	Oil C	Amer	y &	1	Oil C	eson	urpe		:	y &
	rial	l d	armsa		rial (	Jami	T. I		:	amsa J.
-	July 28 Turpentine. 55348 W. C. Stearman, 613 Granville 3 bots. 60 Imperial Oil Co., Vancouver.	Britis	55850 F. R. Begg & Co., Ltd., 1673 50 A. Ramsay & Son, Mon-	55351 Imperial Variety & Colour Co., 3 " 60	55352 Wood, Vallance & Leggatt, Ltd., 3 " 40 Imperial Oil Co., Vancou-	55353 Gordon Brown & Co, 2021 Gran 3 35 R.C. Jamieson & Co., Mon	Texas	55355 Cum, St. Yardware Co., Col. 3 55	60 McLennan & McFeely & Co.,	55357 Vancouract 57357 Vancouver. Granville St., Vancouver.
-	09	09	50	99	40	35	20	55	99	99
	bots	=	1.	=	:	=	:	=	=	:
1	ille 3	6423	167 3	30.,3	.r.	an-3	St., 3	% Jol- 3	ew 3	819 3
ı	rany	Co.,	td.,	our (	45 Fender St. W., vancouver. 700d, Vallance & Leggatt, Ltd.	Souve	lova	30,	umola St., New Westminster. I. T. Kirk, Columbia St., Nev	o.,
1	313 G	aint	ouve	Col	v and	, 20	Cord	are (	bia S	ancouver Hardware Co., Granville St., Vancouver.
	an, e	son I	N CON	sh &	& L	& Co	, 24	ardw	olum	Van
	Sarm	nder	S St.,	armi	r St.	a St.	v an	III H	k, 0	Hair St.,
	St	r He	Be Be	ial	, Val	n Br	Pail	ngha	Kir	ancouver Ha Granville St.,
1	W. C. Stearman, St. Vancouver	Limit	G. B.	mper	Vood	ordo	Crown Paint Co., 24 C	umni	I. T.	anco
-	55348	55349 F	55350 F	1 15833	5352 \	5353 G	5354 C	5355 C	55356 H. T. Kirk, Columbia St., New 3	5357 V
-	. e	:	:	:	11.2	100	100	, AED	:	:
	entin			4					4	
	Turp				-	-		-	-	-
-	7 28	28	23	29	53	30	3.80	31	31	
-	July	=	=	=	=	=	=	=	=	Aug.

## DISTRICT OF VICTORIA-D. O'SULLIVAN, INSPECTOR.

	Imperial Oil Co., Victoria.	Agent at Seattle.	B. A. Paint Co., Victoria		The Staneland Co., Victoria	Imperial Oil Co., Victoria.	A. Hardacre & Co., New	Imperial Oil Co., Victoria
	Imperial (	. Agent at S	B. A. Paint		The Stanel	Imperial C	A. Hardacı	Imperial C
	•	:		:				
			100		+-	100	100	-
-	8.	75	75	75	26	75	25	9
-	3 pts. 60	3 75	3 75	3 75	3 " 56	3 75	3 25	9 " 8
	.td., P.O. Box 3 pts. 60	o., 840 Fort St., 3 " 75	n, 919 Pandora 3 75	304 Douglas St., 3 75	on, 1214 Wharf 3 " 56	Jo., 1202 Wharf 3 75	int Co., Laurel 3 " 25	o., Ltd., 6183 " 60
	Mellor Bros., Ltd., P.O. Box 3 pts. 60	The Staneland Co., 840 Fort St., 3 " 75	H. Harkness & Son, 919 Pandora 3 75	J. L. Forrester, 1304 Douglas St., 3	P. McOrla.	E. B. Marvin & Co., 1202 Wharf 3 " 75	Brit. Amer. Paint Co., Laurel 3 " 25	The Melrose Co., Ltd., 618 3 60 Fort St., Victoria.
	66790 Mellor Bros., Ltd., P.O. Box 3 pts. 60	66792 The Staneland Co., 840 Fort St., 3 " 75	66793 H. Harkness & Son, 919 Pandora 3 75	66795 J. L. Forrester, 1304 Douglas St., 3 ., 75	66797 P. Wicoria, Son, 1214 Wharf 3 " 56	66799 E. B. Marvin & Co., 1202 Wharf 3 ., 75	66601 Brit. Amer. Paint Co., Laurel 3 " 25	66603 The Melrose Co., Ltd., 6183 60 Fort St., Victoria.
	ine., 66790 Mellor Bros., Ltd., P.O. Box 3 pts. 60	66792 The Staneland Co., 840 Fort St., 3 75	66793 H. Harbora & Son, 919 Pandora 3 75	66795 J. L. Forrester, 1304 Douglas St., 3 75	66797 P. Wedonade & Son, 1214 Wharf 3 " 56	66799 E. B. Marvin & Co., 1202 Wharf 3 75	66601 Brit. Amer. Paint Co., Laurel 3 " 25	66603 Troms, vecoria. Fort St., Victoria.
	4 Turpentine 66790 Mellor Bros., Ltd., P.O. Box 3 pts. 60	:		=	2	:	:	" 66603 Tree Melrose Co., Ltd., 618 3 Fort St., Victoria.
	Sept. 24 Turpentine 66790 Mellor Bros., Ltd., P.O. Box 3 pts. 60	24 ". 66792 The Staneland Co., 840 Fort St., 3 ". 75	27 ". 66795 H. Harkness & Son, 919 Pandora 3 ". 75	27 " 66795 J. L. Forrester, 1304 Douglas St., 3 " 75	28 " 66797 P. Weberta. Son, 1214 Wharf 3 " 56	28 ". 66799 E. B. Marvin & Co., 1202 Wharf 3 ". 75	29 " 66601 Brit. Amer. Paint Co., Laurel 3 " 25	29 66603 The Meirosc Co., Ltd., 618 3 60 Fort St., Victoria.

### BULLETIN No. 331-TABLE I

RESULTS OF

		C.	ç.	. Resi-	. Tur-	Boiling H	Point of F		from	Ref	ractive	Index
Name of Inspectoral District,	No. of Sample.	Sp. Gr. at 15·5°	Residue 10cc. 40cc. Acid.	Ref. Index 20° C due.	Ref. Index 20° C. pentine.	1st, 25cc.	2nd, 25cc.	3rd, 25cc.	Next, 15cc.	I	П	ш
Nova Scotia	64256	0.8598	3.6	1.4714	1 4702	148 - 164	-172.5	- 195		1:4679	1.4689	1.4689
	64258 64259 64260 69841 69842 69843	0.8616 0.8614 0.8608 0.8659 0.8638 0.8646	3.5 3.6 0.9 0.8 1.1	1 4705 1 4713 1 4695 1 5043 1 5045 1 5030	1 4704 1 4704 1 4700 1 4703 1 4699 1 4704	149 - 164 149 - 164 149 - 164 148 - 164 148 - 157 · 5 148 - 157 152 - 157	-158 -158·5	-159.5 $-159$	- 162 - 163 - 161	1:4686 1:4694	1 4691 1 4699 1 4694 1 4688 1 4695	1 4697 1 4696 1 4698 1 4696 1 4704
Cape Breton Pr. Ed. Island	63816 60363	0.8646	1:3	1:5105 1:5026	1:4699 1:4710	152 - 157 $152 - 157$ $153 - 157$	-158 -157·5 -158	- 159	$-161 \\ -162$	1:4687 1:4681 1:4685	1 4684 1 4692	1:4690 1:4699
	60365 60365 60367 60368 60369 60370 60371	0 8626 0 8638 0 8818 0 8703 0 8567 0 8632 0 8585	1 1 1 3 0 9 1 1 2 4 1 1 4 5	1:5030 1:5071 1:5068 1:4833 1:4677 1:4984 1:4712	1 4707 1 4705 1 4735 1 4689 1 4661 1 4689 1 4696	153 - 156 $154 - 157$ $154 - 158$ $148 - 157$ $145 - 155$ $146 - 157$ $144 - 156$ $154 - 168$	-158 -160 -157 -183	- 164 · 5 - 161 - 164 - 158 - 217	-162 -162 -193  -177 -163	1 · 4681 1 · 4693 1 · 4693 1 · 4693 1 · 4627 1 · 4677 1 · 4677	1 4693 1 4697 1 4698 1 4658 1 4641 1 4679 1 4681	1:4699 1:4702 1:4707 1:4680 1:4655 1:4682 1:4682
New Brunswick.	66151 66152 66153 66154 66155 66156 66157 66158 66159 66160	0 8635 0 8634 0 8646 0 8635 0 8632 0 8638 0 8638 0 8638	1·1 1·3 1·1 0·9 1·2 1·4 0·7 1·0 1·0	1 5030 1 5047 1 5035 1 5028 1 5056 1 5035 1 5033 1 5090 1 5053	1 4696 1 4699 1 4705 1 4696 1 4699 1 4693 1 4699 1 4708	$\begin{array}{c} 147 - 156 \\ 149 - 159 \\ 149 - 156 \cdot 5 \\ 150 - 156 \cdot 5 \\ 150 - 156 \cdot 5 \\ 152 - 157 \\ 151 - 157 \\ 151 - 157 \\ 151 - 157 \\ 152 - 157 \cdot 5 \\ 154 - 158 \\ \end{array}$	-158 -157.5 -157 -157 -158 -158	-160 -157·5 -158 -158 -158 -158 -159 -159 -160 -160	-159 -161 -160 -161 -161 -161 -161 -162	1:4686 1:4694 1:4685	1 4680 1 4687 1 4699 1 4686 1 4687 1 4679 1 4681 1 4682 1 4695	1 · 4683 1 · 4692 1 · 4701 1 · 4687 1 · 4695 1 · 4696 1 · 4698 1 · 4701
Quebec Province.	3603	0.8488				120-158	-163	-169		1.4598		
	3615	0.8655	0.32	1 5090	1:4705	110—158 135—162	-158 -163	-163 -179		1 · 4600 1 · 4620		
	3584 3588 3593 4401 4408 4410 4413 299 300 311 313 322 2769 2771 2773 2777	0 · 8703 0 · 8605 0 · 8696 0 · 8698 0 · 8698 0 · 8711 0 · 8632 0 · 8795 0 · 8687 0 · 8687 0 · 8688 0 · 8697 0 · 8685 0 · 8642 0 · 8642	3.52 3.76 0.88 0.44 0.56 0.80 0.72 0.72 0.64 0.80 0.88 0.88 0.44 0.72 0.88 0.88	1 4614 1 4704 1 4704 1 5058 1 5110 1 4988 1 4924 1 4884 1 4988 1 4912 1 5010 1 5090 1 4986 1	1 4679 1 4685 1 4700 1 4710 1 4715 1 4709 1 4700 1 46 2 1 4716 1 4710 1 4704 1 4704 1 4709 1 4704 1 4704 1 4680 1 4704 1 4680 1 4704 1 4650	151-157 130-153 120-153 150-157  85-156	-171	-205 -198 -183 -159 -159 -167 -159 -189	-235 -205 -169 -171 -225 -174 -242	1 4670 1 4602 1 4680 1 4705 1 4684 1 4650 1 4640 1 4582	1 4640 1 4680 1 4700 1 4695 1 4684 1 4700 1 4665	1 4664 1 4680 1 4710 1 4705 1 4708 1 4705 1 4678

PART II—

ANALYSIS.

20° C. of Fract Residues.

1 4724 1 504 1 4788 1 5 + 1 4720 1 494

1 4712 1 492

1 4730 1 494

### PART II—TURPENTINE.

ANALYSIS.

ABLE I

SULTS OF

active Index and

4689 1 4689

II III

20° C. o Residue	f Fractions.	ons	1	Vol	um			tai		d f	rot	n	Evaporation							
IV	Residual 10cc.	Residual 25cc.	Under 150° C.	150° to 154°.	155° to 159°.	to	165° to 169°.	to	175° to 179°.	186° to 184°.	185° to 189°.	190° and over.	Residue on Evap	Iodine Number.	Flash Point.	No. of Sample.	Remarks a of Chief	the		1
		1 4738	4	5	8	14	14	11	6	5	5	3				64256	Adulterated.	See	note	or
1 4708 1 4708		1 4741 1 4743 1 4737	3 3 3 3	4 4 4 7	7 9 8 76	17 16 14 13 7 10 8	15 14 13 	9 10 11 	767	5 4	3 4 5	777				64257 64258 64259 64260 69841 69842	"	11		
1 4713 4 4712 1 4700 1 4708 1 4705 1 4712 1 4715 1 4743	1 · 4850 1 · 4902 1 · 4849 1 · 4894 1 · 4806 1 · 4777		2	6 4 4 3 1 1 5	76 84 77 73 77 79 42	8 9 14 12 16 28										69943 63814 63816 60363 60364 60365 60366 60367				
1 4669 1 4692 1 4723	1 · 4920 1 · 4811 1 · 5090	1.4746	2 2	17 11 10 3 14	$\frac{47}{36}$ $\frac{74}{10}$ $\frac{10}{58}$	6 28 4 9	9 7	3 13 2	5 1		5	16				60370 60371 60372	Adulterated, page 5. Adulterated, page 5.			
1 4713 1 4688 1 4703 1 4695 1 4711	1:4763 1:4828 1:4782 1:4794 1:4850		1	10 3 5 5 5 6 5	79 86 82 84 82 81 79	3 1 3 3 6										66151 66152 66153 66154 66155 66156 66157				
1:4702 1:4710 1:4702	1.4809			2	73	2 15 17			, ,		• •				** **	66158 66159 66160				
	1.4784		1														Adulterated. page 5.			0
	1 4780		l	9												3610 3615 3624	Adulterated.		note	0
1:4715 1:4730 1:4688	1:49+ 1:49+ 1:4804		2	1 7 1	10 12 2	14 15 22	21 10 20	15 11 17	3 5 8	2 6 9	1 3 4					3627 3584 3588 3593	page 5.		11	
1 4728	1 4925			i	74	14	1	• •								4401 4403 4408				
1 4724			i	32				1			4.4					4410 4413				
	1.5 +					9			4.	1.0	1					4416 4423 299				
		*****	1:													300 311				
	1 4922					* *								****		313 322 2769 2771	Adulterated. page 5.	See	note	0
1 11414			1	1			4.4						****			2773				

### BULLETIN No. 331-TABLE I

RESULTS OF

		C.	30.	. Resi-	.Tur.	Boiling 1	Point of I 100cc		from	Ref	ractive	Index
Name of Inspectoral District.	No. of Sample.	Sp. gr. at 15·5° (	Residue 10cc. 40cc. Acid.	Ref. Index 20° C. due.	Ref. Index 20° C. pentine.	1st, 25cc.	2nd, 25cc.	3rd, 25cc.	Next, 15cc.	I	П	Ш
	2789	0 8536	2.72	1 4592	1:4650	147-158	-163	-174	-235	1:4635	1.4658	1.4660
	2792 2794 2797	0 · 8829 0 · 8770 0 · 8734	0.64 2.48 0.60	1 4900 1 4680 1 4922	1 · 4728 1 · 4702 1 · 4690	85-157 100-159 95-156	-167	-169 $-184$	-225 $-225$	1:4654	1:4698 1:4666	1 4712
Three Rivers	69124	0.8658	0.48	1:5045	1:4702	95-156						
	69126	0 8651	0.48	1:5072	1:4704							
	69127	0.8647	0.40	1.5080	1:4702							
	69128	0:8670	0.40	1:5068	1.4702							*****
	69130	0.8798	0.90	1:4950	1 4704							
	69131	0.6742	0.64	1.5030	1 4726							
	69132	0.8650	0 68	1:5042	1.4704							
	69133	0.8679	0.80	1:4882	1 4694	140-156	-158	-159	-169	1:4650	1.4686	1 . 4698
Eastern Town- ships.	63050	0 8799	3.32	1:4665	1 4725	130-169	-183	-210	-247	1.4670	1 4688	1:4700
						80-164	-169	-190	-238	1:4586	1:4668	1:4686
	63052	0.8483	3 36	1:4580	1.4632	147 - 159 $150 - 155$	-161	-163	-179	1:4600	1.4632	1 4648
	63054	0.8666	0.64	1:5020	1 4702	150-155	-155	-155	-159	1.4678	1.4692	1.4700
	63055	0.8499	3.36	1.4564	1 4624	130-156	-156	-166	-197	1.4576	1 4620	1.4630
	63056	0.8488	3 36	1 4590	1:4630	140-159	-161	-164	-195	1 4596	1 4630	1 4644
	63057	0.8665	0.56	1:4952	1 4700							
	63059	0.8662	0.72	1 5022	1:4712	140-133						
Montreal	01 400	0 9004	10 12	I DUNO	1 4100							
	67457	0:8661	0.76	1:5000	1:4704	93-157	-159	-162				
	67459	0 8598	3 - 59	1:4570	1:4630	120-163	-159 $-167$	-162 $-179$	-179	1:4632	1 4665	1 4686
	67460	0.8648	0.88	1 4952	1 4694	120-100			-200	1 4612	1 4032	1.4040
	67461	0.8695	3:40	1 4676	1 4,04	1110 - 167	-178	-220	-235	1 4668	1.4680	1 4692
	67462	0.8675	0.26	1.5080	1 4712							
	67464	0.8614	3.36	1 4684	1:4710 1:4700	140-164	-175	-220		1 4680		
	67465	0.8618	3.48	1 : 4665	1:4698	145-168	-178	-215	-247	1 4624	1:4684	1.4686
Valleyfield	57991	0.8890	0.64	1:4975	1:4740	100-158	-160	-170	-225	1:4680	1.4690	1 4706
	57993	0 . 8863	0.48	1 4965	1:4740	100 - 157 $100 - 156$	-158 -156	$-168 \\ -168$	-215 -220	1:4682	1:4692	1 4710
	57004	0.8681	0+88	1 - 4064	1 - 4700		100	100		1 4680		
										*****	*** **	
	01.250	0.9095	0.40	1. 42500	1:4706							
	57998	0.8744	0.92	1 4872	1:4710	140-157	-157	-164		1.4680	1 - 4685	1 :4699
	57 999	0.8048	1.04	1 5010	1.4702							
	58000	0.8580	3.68	1.4670	1.4680	120-158	-164	-178	-215	1 4652	1.4664	1 4684
Ottawa	51693	0:8451	2.80	1:4521	1:4610 1:4705		-158	- 159	-174	1:4612	1:4620	1.4630
	51695	0.8668	0 88	1.4968	1 4700							
	51696	0.8662	0.56	1:5002	1:4700							
	51697	0:8602	4.00	1:4715	1:4692	150 - 167	-177	-207	- 238	1:4680	1.4690	1:4690
					1:4700 1:4704							
	63689	0.8441	2.92	1 4494	1.4610	130 - 153	-154	-158	- 169	1:4595	1:4615	1 - 4699
	63690	0 8664	1:00	1.4998	1.4705	100 100	104	100	100	1 4000	1010	1 1022
	63691	0.8486	2.72	1.4580	1.2630	140 - 157	-158	-159	- 169	1.4610	1.4640	1 4648
	63692	0 8662	0.68	1:4970	1:4700	100 110			****	1.100		1
Kingston	70251	0.8693	0.60	1 5030	1:4708	130 – 153 140 – 157 100 – 140	- 153	-157	- 163	1 4284	1 4502	1 4616
	70252	0 8675	0.56	1:5060	1.4710							*****

PART II

> 1 4600 **1 46** 1 4625 **1 47** 1 4662 **1 47**

### CABLE I

20° C. o Residue	of Fracties.	ons	1	Vol	un	ies		otai		d f	roi	m	oora-			Н				
IV	Residual 10cc.	Residual 25cc.	Under 150° C.	150° to 154°	155° to 159°.	160° to 164°.			175° to 179°.	180° to 184°.	185° to 189°.	190° and over.	Residue on Evapora tion.	Iodine Number.	Flash Point.	No. of Sample.	Remarks a of Chief	the		
1:4614 1:4822 1:4748 1:4802	1 49+ 1 49+ 1 49+		4	10 8 13	38 13 42	29 17 22 14	6 13	8	2 4	1 3	1	7 14 6				2792 2794 2797 69124 69125				
																69126 69127 69128 69129 69130 69131				
1 4718 1 4760 1 4708 1 4650	1 49+		4	3	5 9	11 12 14 50	20	9		6	4	29				69133 69184	Adulterated. page 5.	See	11	on
1 · 4712 1 · 4645 1 · 4640	1 4846		1 2	12	88 41 25	16 36	9	3 7		2 2	1	3	*****			63053 63054	Adulterated.	See	" note	on
1:4720			3		55			3	···							63058 63059 67456 67457	Adulterated.	See	note	on
1:4726			1	1	1	15 17	15	10	11	9	3	24				67460 67461 67462 67463	page 5. Adulterated. page 5.	See	note	on
1 4718 1 4836 1 4805 1 4812	1.5+ 1.5+ 1.5+		1 2 4	15	33 47 41	9 23 13 11 	6 5 6	4 3 2	2 3 2	5 1 1 1 1	1 1 1					67465 57991 57992 57993 57994 57996 57997 57998	"			
1:4610	1 4845		8	4	73	7		1				10				57999 58000 51693 51694 51695	Adulterated. page 5.	See	note	on
1 4710	1:49+			2	4		21	7	13	4	4	23				51696 51697 51698 51699	Adulterated, page 5.			
1 4625	1 4665			14	69	6	1									63690 63691 63692	Adulterated. page 5.	See	note	on
	1 4760	*****		1	27	2											Adulterated. page 5.	See	note	on

### BULLETIN No. 331-TABLE I

RESULTS OF

			40cc.	C. Resi-	C. Tur-	Boiling I	Point of F	ractions	from	Ref	ractive	Index and
Name of Inspectoral District.  Kingston—Con.	No. of Sample.	S. Gr. at 20° C.	Residue 10cc. 40 Acid.	Ref. Index 20° C due.	Ref. Index 20° C pentine.	1st. 25cc.	2nd 25ee.	3rd 25cc.	Next, 15cc.	I	П	III
Kingston-Con.	70253	0.864	80.72	1.5024	1 · 4710							
	70254	0 8720	6 0 48	1:5058 1:4722	1:4714					1 4670		
	70256	0.8685	2 1.08	1.4860	1:4715	130 - 154	- 159			1.4700		
	70257	0 8673	3 0.56	1.5062	1.4718							
	70259	0.8657	0.68	1.2000	1:4708					*** .		
_	70260	0 8649	90.44	1 5065	1:4716							
Toronto	70074	0.8646	0.64	1:5018 1:5030	1:4702							
	70076	0.8647	0.68	1.5042	1:4714							** *
	70077	0.8539	2 90	1.4630	1.4660	140 - 157	-159	-161	-168	1 4620	1:4665	1.4685
				1 4895		130-156	-156	-159	-174	1:4648	1:4684	1:4700
				1:4500		130 - 159	-164		-230	1:4612	1.4642	1:4644
				1:4480 1:4956		140-157	-163	-167	-189	1.4550	1.4610	1 4628
	70082	0.8177	2.20	1:4524	1:4635	120-156				1.4560		
	70083	0.8497	1 92	1 4552	1.4644	140-157	-158	-161	-171	1.4600	1.4658	1.4678
Hamilton	70041	0.8682	0.44	1.4985	1:4720							
	70042	0.8690	0.56	1:4995 1:4552	1:4705	130-158		-169				: ::::
	70044	0.8617	0:96	1:4825	1 4685	150 - 156		-156 -156	-180 $-161$	1.4680	1:4675	1 4622
	70045	0 8649	19.72	1:4970	1:4704							
	70046	0.8666	0.48	1:4975 1:4984	1:4720							
	70048	0.8659	0.44	1.4998	1:4712							
	70049	0.873	0.40	1:4958 1:4970	1:4720					January V		
Windsor	54644	0.8639	0.68	1.2030	1 4712							
	54646	0:8649	9 0.64	1.5030	1:4700	*******						
	24020	12.10000	3 13 . 12 4	1:5020 1:5015	1 . 1000							
	54652	0.8648	8 0.64	1.2034	1.4694							
	54654	0.8652	2 0 : 60	1:5030	1:4692					***		
	54659	0.8666	90.68	1.2018	1 4705							
	54662	0 8661	0.64	1:5048	1:4694							
	54666	0 8669	20.56	1:5018	1:4710							
	54670	0.866	9 3.60	1.9045	1 4705							
		Sp.gr					Initial					
		15.6.	0				Boiling					
Manitoba	C1995	C.	0 0.00	1:4780	1 - 4070		Point.					
Maintons	61326	0.868	50 72	1 5155	1:4708		150° 150°					
	61327	0.868	70.72	1:5100	1:4703		1490					******
	61329	0.861	91.04	1:5104	1 4715		151° 149°			****		** *
	61333	0.870	30.64	1.5090	1.4708		153°	*****	4414			
	61334	0.859	9 0 50	1:4820	1:4700		149° 148°					
	61339	0.868	4 0.64	1:5080	1:4702		1530					
Saskatchewan.	61340	0 864	7 1:60	1 4820	1 4678		150°					
Saskatchewan	66395	10.861	211 - 36	T 1800	1 : 4672		150° 150°					******
	66396	10.8699	$210 \cdot 80$	11.5038	1 : 4703		15.90					
	15053548	ID: 8691	1101148	11 : 5060	1 47(0)		149° 150°					

PART II

ANALYSIS

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### ABLE I

### PART II-TURPENTINE.

### ANALYSIS.

1   1   1   1   1   1   1   1   1   1	20° C. of Fraction Residue.					um			tai		d	froi	m	oration							
1 4715   1 4890	Residual 10cc.	Residual 25cc.	Under 150° C.						170° to 174".	175° to 179°.		185° to 189°.	190° and over.	Residue on Eval	Iodine Number.	Flash Point.	No. of Sample.				
1 4740   1 5085   1 29 24   18   7   4   4   1   2   2   70256   page 5.   70256   p																					
70239 70259 70260 70270 70270 70270 70080 70080 70080 70081 70081 70082 70083 70083 70083 70083 70084 70044 70044 70044 70044 70044 70044 70044 70044 70044 70044 70044 70044 70044 70044 70045 70040	4740	1.5085		1	29	24	18	7	4	4	12	1	2				70255 70256		See	note	on
14684   14760   2   10   8   35   5																	70258 70259				
1 4684 1 4760																	70074				
1 4598 1 4745	4684	1.4760		2	10	48	35										70076 70077	Adulterated.	See	note	OI
1 4678   1 4716				1	4	62 20	25	16	5		3	1	iı					Adulterated.	See	note	0
1 4685   1 4735   3   15   49   17   5   1   70081   70041   70042   70043   70043   70045   70045   70045   70045   70045   70046   70046   70046   70046   70046   70046   70046   70046   70046   70046   70046   70040   70050   7											2						70081	"	"		
1 4622   1 4850	4678	1 4728		3	15	49	17	5	1									page 5.	See	note	0
1 1700 1 4815																	70042		_		
70046 70047 70048 70049	1700	1.4812			8	81	1	5		3	3						70044		See	note	0
70049 70049 70050 54644 54646 54646 54650 54650 54650 54657 54667 54667 54667 54667 54666 5467 5466																	70046				
54644 54648 54648 54652 54652 54652 54652 54652 54652 54663 54663 54664 54666 5467			,,,,,,														70049				
54630 54630 54650 54652 54652 54665 54667 54667 54666 54666 54666 54666 5467  54666 5467  54666 5467  54666 5467  54681 5467  54682 54684 5467  54681 54682 54681 54682 54681 54682 54681 54682 54681 54681 54681 54681 54681 54881 5888 1 1 98 376 2 6 6 6 3327 78 2 2 30 370 3 6 6 3329 580 1 1 66 334 6 6 334 585 1 82 376 8 6 1332 76 1 1 98 350 1 6 1334 590 1 1 93 357 6 6 6 1388 593 0 1 30 337 6 6 6 1388 593 0 1 30 3 379 6 6 6 339																	54644				
54657 54657 54652 54652 54664 54664 54664 54666 5467						18											54650				
																	54654				
																	54659				
. 63 . 1 '64   329 2 . 61325   Adulterated. See no 93   1 '08   376 '2   61326   page 5.   96   1 '32   378   6   61327   61326   78   2 '30   370 '3   61329   80   1 '66   334   61334   85   1 '82   376 '8   61334   85   1 '93   350 '1   61334   90   1 '93   350 '1   61334   90   1 '93   379   6   61338   90   1 '93   379   6   61338   90   1 '93   379   6   61339   90   1 '93   379   6   61339																	54666				
93 1 08 376 2 61326 page 5. 966 1 32 378 6 61327 78 2 30 370 3 61329 80 1 166 334 61331 85 1 82 376 8 61332 70 1 198 350 1 61334 90 1 193 357 6 61388 93 0 093 370 6 61388													**				94011				
93 1 08 376 2 61326 page 5. 966 1 32 378 6 61327 78 2 30 370 3 61329 80 1 166 334 61331 85 1 82 376 8 61332 70 1 198 350 1 61334 90 1 193 357 6 61388 93 0 093 370 6 61388						69								1:64	290 0		61995	Adultonated	Son	moto	
78 2 230 370 3 61329 80 1 66 334 61331 85 1 82 376 8 61332 76 1 98 350 1 61334 90 1 193 350 6 61338 93 0 93 370 6 61338 90 1 93 370 6 61338						93								1.08	376 2		61326		Oen	посе	0
						80								1.66	370.3		61331				
						70								1.98	350.1		61334				
															379 6		61339				
75 1.25 394.5 66395						74 75				***				3°55 1°35	324.5		66394 6639?				
92 1:36 359:4 66396 91 1:77 350.7 66398 89 1:88 344.7 66400						92 91								1:36 1:77	359 4	and the second	66398				

### BULLETIN No, 331-TABLE I

RESULTS OF

Name of Inspectoral District.		.c.	cc. acid.	C. Resi-	C. Tur-	Boiling F	Point of 1		from	Ref	ractive	Index and
of Inspectoral	No. of Sample.	Sp. Gr. at 15·6°	Residue 10 cc. o	Ref. Index 20° C. due.	Ref. Index 20° pentine.	1st, 25cc.	2nd, 25cc.	3rd, 25cc.	Next, 15cc.	I	11	Ш
Saskatchewan — Con.	66410 66412 66416	0 · 8684 0 · 8696	0:48 0:64 0:48	1·5022 1·5094 1·5020	1:4701 :4699 1:4708		Initial Boiling Point. 152° 149° 152° 152° 149°					
Alberta	52247 52248 52249 52250 52251 52252 52253 52254	0 · 8652 0 · 8548 0 · 8652 0 · 8652 0 · 8658 0 · 8733 0 · 8624 0 · 8669	0·32 1·76 0·36 0·36 0·36 0·56 0·48 0·32	1 · 5005 1 · 4540 1 · 4950 1 · 4891 1 · 4970 1 · 4701 1 · 4792 1 · 5040	1 4711 1 4665 1 4710 1 4708 1 4700 1 4711 1 4700 1 4711	152-160 $156-158$ $152-157$ $154-157$ $155-158$ $152-156$ $152-156$ $152-157$ $154-157$	$\begin{array}{c} -163 \\ -159 \\ -161 \\ -158 \\ -160 \\ -156 \\ -160 \\ -158 \\ -158 \end{array}$	-171 -160 -167 -160 -163 -158 -166 -160 -159	$-163 \\ -163$	1·4648 1·4689 1·4689 1·4682 1·4683 1·4666 1·4683 1·4690	1 4692 1 4660 1 4693 1 4690 1 4689 1 4681 1 4689 1 4694	1:4702 1:4666 1:4703 1:4695 1:4699 1:4699
Rocky Mountains.	61847 61854 61866 61867	0.8684 $0.8648$ $0.8654$ $0.8681$	0 · 48 0 · 72 0 · 40 0 · 48	1 · 5048 1 · 5092 1 · 5023 1 · 5048	1:4708 1:4711 1:4719 1:4710	155-162 $153-157$ $154-158$ $154-157$ $153-157$ $100-133$	-164 $-158$ $-159$ $-158$ $-158$ $-152$	$ \begin{array}{r} -170 \\ -160 \\ -160 \\ -159 \\ -160 \\ -169 \end{array} $	-189 -167 -161 -164 -164 -187	1 4649 1 4684 1 4693 1 4699 1 4686 1 4208	1 · 4691 1 · 4700 1 · 4706 1 · 4696	1 · 4700 1 · 4709 1 · 4710 1 · 4698
	61876 61882 61883 61886	0.8695 0.7972 0.8682 0.8780	0 36 7 84 0 52 0 32	1:5080 1:4315 1:4649 1:4987	1:4709 1:4411 1:4700 1:4729	154-160 153-158 145-157 150-156 153-160 152-156	-164 $-159$ $-167$ $-158$ $-163$ $-157$	$ \begin{array}{r} -169 \\ -160 \\ -179 \\ -162 \\ -167 \\ -159 \end{array} $	-187	1 · 4639 1 · 4681 1 · 4371 1 · 4629 1 · 4680 1 · 4687	1 · 4691 1 · 4402 1 · 4680 1 · 4697	1:4700 1:4447 1:4699 1:4706
Vancouver	55350 55351 55352 55353 55354 55355 55356	0.8643 0.8567 0.8667 0.8284 0.8651 0.8668 0.8340	0.84 0.76 0.30 5.48 0.24 0.54 7.00	1 4568 1 4559 1 4903 1 4464 1 5039 1 4716 1 4491	1:4690 1:4660 1:4703 1:4543 1:4700 1:4695 1:4581	153-159 $150-156$ $147-153$ $153-159$ $147-163$ $154-157$ $148-156$ $147-169$	-161 -160 -157 -160 -172 -157 -156 -184	-166 -164 -159 -162 -191 -157 -160 -205	-181 $-164$ $-165$ $-214$ $-161$ $-174$ $-220$	1 4651 1 4630 1 4579 1 4669 1 4453 1 4684 1 4620 1 4442	1 4676 1 4659 1 4690 1 4521 1 4688 1 4680 1 4519	1 · 4689 1 · 4679 1 · 4699 1 · 4562 1 · 4691 1 · 4699 1 · 4582
Victoria	66790 66792 66793 66795 66797 66691	0.8662 0.8700 0.8573 0.8503 0.8691 0.8775 0.8639	0:36 0:36 1:84 2:30 0:52 0:36 0:36	1 5002 1 5062 1 4649 1 4480 1 5040 1 5008 1 5021	1 · 4710 1 · 4711 1 · 4681 1 · 4648 1 · 4710 1 · 4719 1 · 4704	150-159 $152-157$ $154-157$ $154-161$ $155-159$ $154-158$ $149-156$ $154-157$ $153-160$	-162 -157 -158 -164 -162 -160 -157 -157 -160	-168 -159 -159 -167 -169 -161 -162 -158 -172	-182 -164 -164 -181 -184 -167 -184 -160 -187	1 4631 1 4687 1 4689 1 4658 1 4639 1 4686 1 4662 1 4690 1 4612	1 · 4697 1 · 9698 1 · 4668 1 · 4649 1 · 4688 1 · 4697	1 · 4702 1 · 4701 1 · 4679 1 · 4653 1 · 4700 1 · 4699 1 · 4703

PART 1 ANALYS

20° C. of F Residues.

IV

### TABLE I

SULTS OF

### PART II-TURPENTINE.

ANALYSIS.

20 C. of Fractions Residues.			1	Tol	um		Ob 100			d f	ro	m	poration.								
IV	Residual 10cc.	Residual 25cc.	Under 150° C.	150° to 154°	155° to 159°	160° to 164°	to	170° to 174°	175° to 179°	186° to 184°	185° to 189°	190° and over.	Residue on Evaporation Iodine Number.	Iodine Number	Flash Point.	No. of Sample.	Remarks and Opinion of the Chief Analyst.				
					92 86 86 87 93								1·53 2·03 1·57 1·98 1·68	329 · 4 348 · 2 346 · 7		66402 66410 66412 66416 66418					
1 4670 1 4719 1 4662 1 4717 1 4720 1 4720 1 4708 1 4713 1 4668 1 4712 1 4715 1 4722 1 4715 1 4650	1·4786 1·4880 1·4889 1·4893 1·5041 1·4788 1·4879 1·4797 1·4960 1·4839 1·4903 1·4894			2 2 2	64 38 68 47 79 37 71 77 16	24 28 22 33 9 28 19 13 43 17 25 7	2 13 6 15  14 3	3 4 7	3	3	3			312 · 2 378 · 2 314 · 7 377 · 0 373 · 1 373 · 1 371 · 8 375 · 7 315 · 9 387 · 1 376 · 0 60 · 3	32 5 35 5 33 0 32 5 31 5 33 0 31 5 34 0 33 5 34 5 34 5 34 5	52247 52248 52249 52250 52251 52252 52253 52254 62255 61847 61854 61366 61867	Adulterated, page 5. Adulterated, page 5. Adulterated, page 5. Adulterated.	See See	note	on	
1 4653 1 4714 1 4509 1 4721 1 4732 1 4719 1 4697 1 4702 1 4602 1 4706 1 4721 1 4639 1 4718 1 4712 1 4672 1 4672	1 4810 1 4945 1 4625 1 5001 1 5090 1 4721 1 4981 1 4827 1 4838 1 4720 1 4827 1 5024 1 4788 1 5031 1 4911 1 487 1 4778		8 2 2 3 4	1 10 10 10 10 11 2 2 1 1 1 1 1 1 1 1 1 1	49 18 48 47 76 24 37 44 19 9 84 56 6 6 14 72 78	35 12 25 59 12 45 29 7 65 13 6 49 15 12 49	5 11 7 16  11 9  5 14  4 6 11	111 5 6 3 7 5 	9 3 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	66 1 1 1 2 2 5 8 2	1 5 1	17		291 · 8 380 · 7 9 · 3 345 · 7 364 · 9 387 · 1 320 · 4 336 · 7 374 · 4 133 · 2 383 · 9 345 · 7 53 · 9 344 · 3 364 · 9 374 · 4 325 · 2 287 · 1	32 · 5 32 · 0 29 · 0 33 · 0 34 · 5 29 · 5 32 · 0 34 · 5 32 · 0 34 · 0 34 · 0 34 · 0 34 · 0 35 · 0 36 · 0 37 · 0 38	61876 61882 61883 61886 55348 55350 55351 55353 55354 55355 55356 66790 66792 66793	page 5.  Adulterated. page 5.  Adulterated. page 5.	See See		or	
1 4713 1 4736 1 4712 1 4628	1:5096		2	10	39	10	4	3	2	١				376 · 0 350 · 5 388 · 6 269 · 7	34·0 31·0 33·5	66797 66799 66601	page 5.  Adulterated. page 5.				