

CARLTON 702 DURHAM BRANCH

DATE REQ.	12/15/75	12/15/75	12/16/75	12/17/75	12/21/75	12/31/75	1/14/76	1/15/76	1/20/76	1/27/76	1/28/76	1/29/76
SHIFT			D	N	D	N	D	D	D	D	D	D
Smoke Analysis:												
No. Ports	20	20	20	20	20	20-12	20-12	20	20	10	10	10
Length Smoke (mm)	37	37	37	37	37	37	37	37	37	37	37	37
Puffs / Cigt	6.8	6.8	6.8	7.1	7.2	6.0	6.5	6.9	6.9	7.5	6.9	7.1
TAR mg / Cigt	0.62	0.44	0.35	0.22	0.30	0.28	0.47	0.64	0.70			
mg / PUFF	0.1	0.06	0.05	0.03	0.04	0.04	0.07	0.1	0.1			
Nicotine mg / Cigt	0.07	0.07	0.05	0.04	0.06	0.06	0.06	0.02	0.09			
mg / PUFF	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
TPM mg / Cigt										0.245	1.18	0.93
mg / PUFF										0.05	0.17	0.13
												0.63
												0.09
DATE REQ.	1/30/76	2/2/76	2/5/76	2/9/76	2/10/76	2/11/76	2/16/76	Composite 1/20-30/76 2/3/76				
SHIFT	D	D	D	D	D	D	D					
Smoke Analysis:												
No. Ports	10	10	10	10	10	10	10					24-12
Length Smoke (mm)	37	37	37	37	37	37	37					37
Puffs / Cigt	7.0	6.8	4.3	4.4	4.7	4.8	4.5					5.7
TAR mg / Cigt				0.16	0.19	0.20	0.48					0.71
mg / PUFF				0.04	0.05	0.04	0.11					0.09
Nicotine mg / Cigt				0.06	0.06	0.06	0.06					0.09
mg / PUFF				0.01	0.01	0.01	0.01					0.01
TPM mg / Cigt	0.70	0.56	0.43									
mg / PUFF	0.10	0.12	0.10									
* Smoke Produced Prior to Packaging ** Packaged 12/16/75												

Carlton 70 - Durham Branch

Date	Shift	Tar (mg/cigt)	TPM (mg/cigt)
2/18			0.04
2/19			Trace
2/20			0.03
2/23			0.19
2/24			Trace
2/25			0.24
2/26			Trace
2/26 - 5 row tipping			0.89
1/26 - 2/30		0.74	
2/18 - 2/26			Trace

Carlton 70's

Date	Shift	Tar (mg/cigt)	TPM (mg/cigt)
12/15	(unpacked)	0.62	
12/15	(packed on 12/12)	0.44	
12/15	Day	0.35	
	Night	0.72	
12/17	Day	0.31	
12/30	Night	0.28	
12/31	Day	0.47	
1/14	Day	0.64	
1/15	Day	0.70	
1/26	Day		0.35
1/27	Day		1.18
1/28	Day		0.93
1/29	Day		0.63
1/30	Day		0.70
2/3	Day		0.86
2/5	Day		0.43
2/9	Day	0.16	
2/10	Day	0.19	
2/11	Day	0.20	
2/12	Day	0.48	
Average		0.39	0.73 = .64 + tar
			88% = 72%

Duchan Branch - Carlton (53)

DATE	MO.	2/30/76	3/3/76	3/3/76	2/25/76	2/27/76	3/1/76	3/1/76	3/1/76	3/1/76
Shift		D	N	D	N	D	N	Composite	U.F.	U.F.
Smoke Analysis:										
Ob. Parts	10	10	10	10	10	10	10	20	20	10
Length Smokebox	50	50	50	50	50	50	50	50	50	50
Yield/length	6.8	6.3	6.4	6.1	6.5	6.3	6.1	6.5	6.4	5.8
Tar mg/cigt	1.28	1.09	1.11	1.18	1.62	1.77	1.79	1.81	1.56	1.68
Nicotine mg/cigt	0.20	0.17	0.17	0.28	0.31	0.27	0.28	0.30	0.28	0.29
Tar mg/cigt									1.40	
Nicotine mg/cigt									0.22	
Nicotine mg/cigt									0.17	
Nicotine mg/cigt									0.23	
DATE	MO.	3/5/76	3/5/76	3/5/76	3/5/76	3/5/76	3/5/76	3/5/76	3/5/76	3/5/76
Shift		D	N	D	N	D	N	Composite	U.F.	U.F.
Smoke Analysis:										
Ob. Parts	10	10	10	10	10	10	10	20	20	10
Length Smokebox	50	50	50	50	50	50	50	50	50	50
Yield/length	6.4	6.2	6.4	6.2	6.4	6.4	6.4	6.4	6.4	6.4
Tar mg/cigt	1.68	1.61	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
Nicotine mg/cigt	0.26	0.26	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Tar mg/cigt										
Nicotine mg/cigt										
Nicotine mg/cigt										
Nicotine mg/cigt										

CAP. LYON (P3) DURHAM BRANCH
 MEQ. AT 148 CIGTS LYON.

DATE MEQ.	SHIFT	Smoke Analysis:	No. Puffs	10 mg Nicotine (mg)	Puffs/cig.	10 mg Tar	mg. Cigt.	mg. Buft
2/11/76	2nd	10	10	50	6.6	1.71	0.25	
2/12/76	2nd	10	10	50	7.2	1.77	0.30	
2/13/76	2nd	10	10	50	6.7	1.86	0.35	

CARLTON (83) Durham ---

[illegible]

Carlton 23 - Durham Branch

Date	Shift	Par (mg/cuft)	TPM (mg/cuft)
2/12	D		1.73
	N		1.67
2/18	D		1.55
	N		1.27
2/19	D		1.75
	N		1.68
2/20	D		1.38
	N		1.09
2/23	D		1.11
	N		1.86
2/24	D		1.62
	N		1.78
2/25	D		1.77
	N		1.79
2/26	D+N		1.41
2/27	D+N		1.81
Composite Va. + Dur 2/3-2/16 1.17			
Composite Va + Dur 2/17-2/24 1.40			
Average		1.29	1.57

CARLTON (83) Denham

Date	Shift	tar (mg/cigt.)	TPM (mg/kg)
2/3/76	D	1.20	
	N	1.27	
2/4/76	D	1.37	
	N	1.45	
2/5/76	D	1.28	
	N	1.19	
2/6/76	D	1.58	
	N	—	—
2/9/76	D	0.96	
	N		1.78
2/10/76	D		1.78
	N		1.58
2/11/76	D		1.60
	N		1.67
2/12/76	D		1.11
	N		1.59
2/13/76	D		1.46
	N		1.72
2/16/76	D		1.78

Avg.

1.29

1.63

= 1.43 tar

Carlton 83 - Durham Branch
mfg @ 142 cigs/403

Date	Shift	Tar (mg/cigt)	TPM (mg/cigt)
2/11	D		1.71
2/12	D		1.47
2/13	D		2.36
2/15	D		1.64
2/17	D		1.20
Average			1.68

CARLTON (82) Virginia Branch

Date mfg.	2/3/76		2/4/76		2/5/76		2/6/76		2/9/76		2/10/76		2/11/76	
Shift	D	N	D	N	D	N	D		D	N	D	N	D	N
Smoke Analysis:														
No. Ports	10	10	10	10	10	10	10		10	10	10	10	10	10
Length Smoked (in)	50	50	50	50	50	50	50		50	50	50	50	50	50
Puffs / cigt	6.4	6.4	6.3	6.7	6.4	6.8	6.6		6.4	6.5	6.6	6.1	6.5	6.3
'TAR' mg / cigt	1.17	1.62	1.67	0.85	1.12	0.95	1.28		1.08					
mg / PUFF	0.18	0.25	0.27	0.13	0.18	0.13	0.19		0.17					
Nicotine mg / cigt	0.14	0.15	0.16	0.12	0.14	0.14	0.16		0.16					
mg / PUFF	0.02	0.02	0.03	0.02	0.02	0.02	0.02		0.02					
TPM mg / cigt									0.92	1.12	1.98	1.69	1.15	
mg / PUFF									0.14	0.21	0.32	0.26	0.18	

Date mfg.	2/12/76		2/13/76		2/16/76									
Shift	D	N	D	N	D	N								
Smoke Analysis:														
No. Ports	10	10	10	10	10								24	
Length Smoked (in)	50	50	50	50	50								50	
Puffs / cigt	6.4	6.6	6.5	6.4	6.3								6.6	
'TAR' mg / cigt													1.17	
mg / PUFF													0.18	
Nicotine mg / cigt													0.15	
mg / PUFF													0.02	
TPM mg / cigt	1.18	1.25	1.65	1.74	2.03									
mg / PUFF	0.18	0.19	0.25	0.27	0.32									

Composite
UR. DUB

Incigua Rech. CARLTON (53)

DATE MEQ	2/20/76	2/23/76	2/24/76	2/25/76	2/26/76	2/27/76	2/28/76	2/29/76	2/1/77	2/1/77	2/1/77
SHIFT	2	2	2	2	2	2	2	2	2	2	2
SAMPLE ANALYSIS											
NO. PORTS	10	10	10	10	10	10	10	10	10	10	10
LENGTH (SMOKE)	50	50	50	50	50	50	50	50	50	50	50
QUEES (CAT)	6.5	6.1	6.4	6.3	6.1	6.9	6.5	6.2	6.3	6.2	6.2
TPM (mg/cig)	0.83	0.68	0.96	1.04	1.06	1.50	1.59	1.37	1.59	1.59	1.93
TAR (mg/cig)	0.13	0.14	0.16	0.2	0.27	0.22	0.26	0.22	0.25	0.25	0.31
NICOTINE (mg/cig)											
DATE MEQ	3/5/76	3/6/76	3/6/76	3/6/76	3/6/76	3/6/76	3/6/76	3/6/76	3/6/76	3/6/76	3/6/76
SHIFT	2	2	2	2	2	2	2	2	2	2	2
SAMPLE ANALYSIS											
NO. PORTS	10	10	10	10	10	10	10	10	10	10	10
LENGTH (SMOKE)	50	50	50	50	50	50	50	50	50	50	50
QUEES (CAT)	6.1	6.3	6.4	6.3	6.1	6.9	6.5	6.2	6.3	6.2	6.2
TPM (mg/cig)	0.83	0.68	0.96	1.04	1.06	1.50	1.59	1.37	1.59	1.59	1.93
TAR (mg/cig)	0.13	0.14	0.16	0.2	0.27	0.22	0.26	0.22	0.25	0.25	0.31
NICOTINE (mg/cig)											
DATE MEQ	3/5/76	3/6/76	3/6/76	3/6/76	3/6/76	3/6/76	3/6/76	3/6/76	3/6/76	3/6/76	3/6/76
SHIFT	2	2	2	2	2	2	2	2	2	2	2
SAMPLE ANALYSIS											
NO. PORTS	10	10	10	10	10	10	10	10	10	10	10
LENGTH (SMOKE)	50	50	50	50	50	50	50	50	50	50	50
QUEES (CAT)	6.1	6.3	6.4	6.3	6.1	6.9	6.5	6.2	6.3	6.2	6.2
TPM (mg/cig)	0.83	0.68	0.96	1.04	1.06	1.50	1.59	1.37	1.59	1.59	1.93
TAR (mg/cig)	0.13	0.14	0.16	0.2	0.27	0.22	0.26	0.22	0.25	0.25	0.31
NICOTINE (mg/cig)											

Carlton 83 Virginia Branch

Date	Shift	Tar (mg/cigt)	TPM (mg/LiR)
2/17	D		1.57
	N		1.61
2/18	D		1.71
	N		1.30
2/19	D		1.59
	N		1.07
2/20	D		0.83
	N		0.68
2/23	D		0.96
2/23 N 2/24 D			1.12
2/24 N 2/25 D			1.64
2/25 N 2/26 D			1.64
2/26 N 2/27 D			1.50
2/27 N 3/1 D			1.59
Composite Var & Dur 2/3-2/16		1.17	
Composite Var & Dur 2/17-2/25		1.40	
Average		1.29	1.34

Carlton (#3) Virginia

Date	shift	tar (mg/cyf)	TRM (mg/cyf)
2/3/76	D	1.17	
	N	1.62	
2/4/76	D	1.67	
	N	0.85	
2/5/76	D	1.12	
	N	0.95	
2/6/76	D	1.28	
	N	—	
2/9/76	D	1.08	
	N		0.92
2/10/76	D		1.42
	N		1.98
2/11/76	D		1.69
	N		1.16
2/12/76	D		1.18
	N		1.25
2/13/76	D		1.65
	N		1.74
2/16/76	D		2.03

avg.

1.22

1.50
= 1.32 tar

Carleton Memorial (83) Durham Branch

DATE MEQ	2/26/76	2/25/76	2/26/76	2/27/76	2/28/76	2/29/76	2/30/76	3/1/76	3/2/76	3/3/76	3/4/76	3/5/76	3/6/76
SHIFT	D	N	D	3/26/76	2/25	2/26	2/27	2/28	2/29	2/30	3/1	3/2	3/3
Smoke Analysis:-													
No. Puffs	10	10	10	10	10	10	10	10	10	10	10	10	10
Length Smoke (mm)	50	50	50	50	50	50	50	50	50	50	50	50	50
Puffs/Sec	6.5	6.4	6.4	6.5	6.4	6.5	6.5	6.5	6.6	6.7	6.3	6.4	6.7
TAR mg/puff	0.64	0.38	0.37	0.71	0.4	0.39	0.42	0.40	0.47	0.50	0.98	0.59	0.59
TAR mg/puff	0.6	0.06	0.06	0.12	0.46	0.06	0.10	0.17	0.22	0.16	0.63	0.10	0.10
TAR mg/puff					0.07						0.10	0.09	0.09
Nicotine mg/puff					0.01						0.01	0.01	0.01
DATE MEQ	3/9/76	3/10/76	3/11/76	3/12/76	3/13/76	3/14/76	3/15/76	3/16/76	3/17/76	3/18/76	3/19/76	3/20/76	3/21/76
SHIFT	3/9/76	3/10/76	3/11/76	3/12/76	3/13/76	3/14/76	3/15/76	3/16/76	3/17/76	3/18/76	3/19/76	3/20/76	3/21/76
Smoke Analysis:-													
No. Puffs	10	10	10	10	10	10	10	10	10	10	10	10	10
Length Smoke (mm)	50	50	50	50	50	50	50	50	50	50	50	50	50
Puffs/Sec	6.7	6.7	6.7	6.9	6.2	6.5	6.5	6.5	6.7	6.7	6.7	6.7	6.7
TAR mg/puff	1.13	1.09	1.09	0.94	1.25	1.14	1.14	1.14	0.95	0.95	0.95	0.95	0.95
TAR mg/puff	0.17	0.16	0.16	0.15	0.20	0.11	0.11	0.11	0.09	0.09	0.09	0.09	0.09
TAR mg/puff													
Nicotine mg/puff													
Nicotine mg/puff													

DATE Recd.	Shift	Smoke Analysis	No. Cops	Length Smoke (mm)	Queue Cpx	TAR, mg/cy	Alcative mg/cy	TPM mg/cy	mg/puff
2/6/76	D	10-6	50	6.3	0.97	0.09	0.09	0.02	0.01
2/6/76	D	10-6	50	6.6	0.58	0.08	0.08	0.01	0.01
2/9/76	N	10	50	6.7	0.57	0.08	0.08	0.01	0.01
2/10/76	D	10	50	6.8	0.56	0.08	0.08	0.01	0.01
2/10/76	N	10	50	6.1	0.56	0.08	0.08	0.01	0.01
2/11/76	D	10	50	6.6	0.56	0.08	0.08	0.01	0.01
2/11/76	N	10	50	6.5	0.56	0.08	0.08	0.01	0.01
2/12/76	D	10	50	6.7	0.56	0.08	0.08	0.01	0.01
2/12/76	N	10	50	6.9	0.56	0.08	0.08	0.01	0.01
2/13/76	D	10	50	6.9	0.56	0.08	0.08	0.01	0.01
2/13/76	N	10	50	6.9	0.56	0.08	0.08	0.01	0.01

CAELTON MENTHOL (83) Durham Branch

Date Mfg.	1/22/76		1/23/76		1/24/76		1/27/76				1/28/76		
Shift	D	N	D	N	D	N	D	D	N	N	D	D	N
							3 Row Perf	2 Row Perf	3 Row Perf	2 Row Perf	3 Row Perf	2 Row Perf	-
Smoke Analysis:													
No. PORTS	20-12	24	10-6	10-6	10-6	10-6	10	10-6	10	10-6	10	10-6	10-6
Length/Smoke (mm)	50	50	50	50	50	50	50	50	50	50	50	50	50
PUFFS/cigt	7.3	7.5	7.7	8.0	8.0	7.2	7.8	7.0	7.7	6.8	7.1	7.1	6.7
TAR mg/cigt	2.65	3.00	1.67	1.17	1.08	1.23		1.38		1.56		1.29	1.77
mg/puff	0.4	0.27	0.19	0.15	0.14	0.17		0.19		0.23		0.18	0.26
Nicotine mg/cigt	0.23	0.23	0.14	0.11	0.10	0.12		0.15		0.15		0.13	0.19
mg/puff	0.03	0.03	0.04	0.01	0.01	0.02		0.02		0.02		0.02	0.03
TPM mg/cigt							1.32		0.78		1.39		
mg/puff							0.17		0.10		0.20		

Date Mfg.	1/29/76		1/30/76		2/2/76		2/3/76		2/4/76		2/5/76		
Shift	D	N	D	N	D	N	D	N	D	N	D	N	
									MRT type	thinner			
Smoke Analysis:													
No. PORTS	10-6	10-6	10-6	10-6	10-6	10-6	10-6	10-6	10-6	10-6	10-6	10-6	10-6
Length/Smoke (mm)	50	50	50	50	50	50	50	50	50	50	50	50	50
PUFFS/cigt	6.0	6.7	7.0	7.2	7.1	7.0	6.3	6.9	6.8	6.7	7.1	7.1	6.5
TAR mg/cigt	1.51	0.96	0.16	0.55	0.13	0.47	0.51	0.79	0.85	0.41	0.63	0.58	0.38
mg/puff	0.23	0.07	0.02	0.08	0.02	0.07	0.08	0.11	0.13	0.06	0.09	0.08	0.06
Nicotine mg/cigt	0.17	0.09	0.08	0.10	0.07	0.08	0.08	0.12	0.11	0.08	0.10	0.09	0.08
mg/puff	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.12	0.01	0.01	0.01	0.01
TPM mg/cigt													
mg/puff													

Carlton (83) Menthhol - Dartm Branch

Date	Shift	Tar (mg/cigt)	TPM (mg/cigt)
2/16	D		1.33
	N		1.78
2/17	D		1.42
	N		1.75
2/18	D		0.98
	N		0.98
2/19	D		0.66
	N		0.28
2/20	D		0.29
	N		0.60
2/23	D		0.70
	N		0.53
2/24	D		0.64
	N		0.38
2/25	D		0.37
	N		0.78
2/26	D+N		0.39
2/27	D+N		0.67
2/16 - 2/25 composite		0.46	0.78

CARLTON (23) mental Durham Bch.

Date	shift	Zon (mg/cigt.)	TPM (mg/cigt.)
1/29/76	N	0.46	
1/30/76	D	0.16	
	N	0.55	
2/2/76	D	0.18	
	N	0.47	
2/3/76	D	0.51	
	N	0.79	
2/4/76	2 (mrtipper)	0.85	
	2 (HAMMER)	0.41	
	N	0.63	
2/5/76	D	0.58	
	N	0.38	
2/6/76	D	0.67	
	N	0.58	
2/9/76	D	0.56	
	N		1.00
2/10/76	D		0.82
	N		0.70
2/11/76	D		0.78
	N		0.66
2/12/76	D		0.48
	N		0.66
2/13	D		0.59
Aug.		0.52	0.71
			= .62 tan