



**Combined State Binder
Group**

Method of Acceptance for
Asphalt Binders

RR 2007-2
SUMMARY A

COMBINED STATE BINDER GROUP ROUND ROBIN 2007-2

SUMMARY A

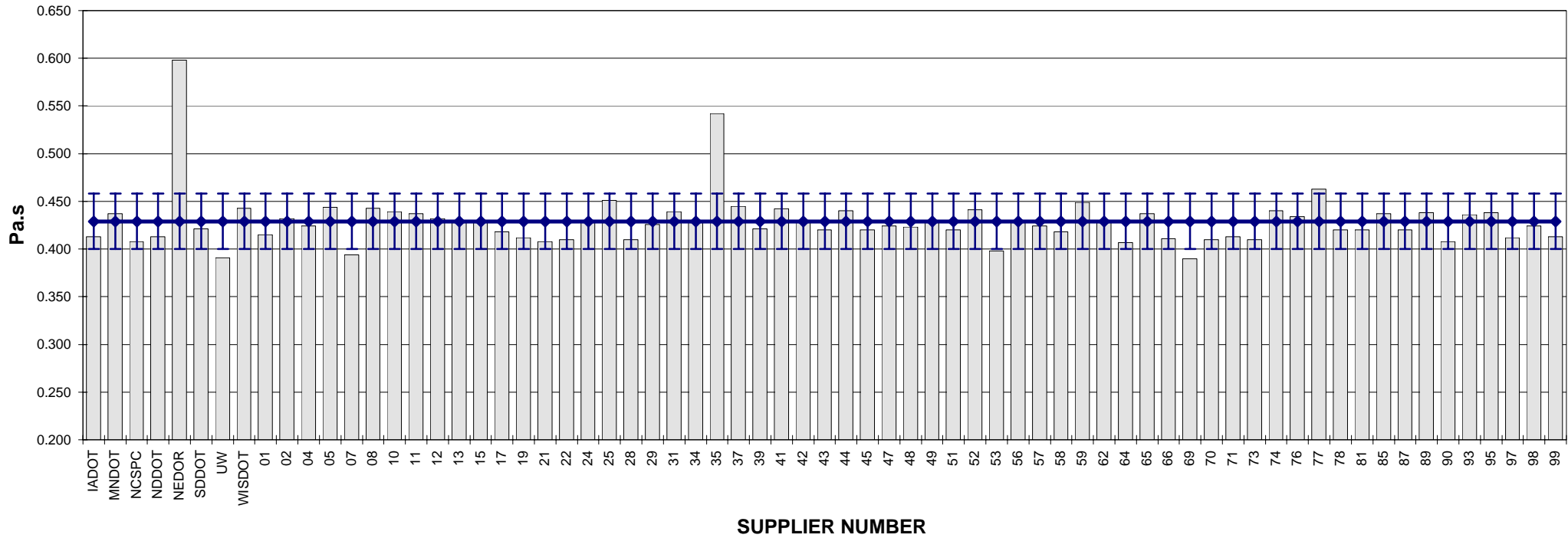
PG 64-22

Supplier Number	Rotational Viscosity @135°C	DSR Original @64°C	DSR RTFO @64°C	DSR PAV @25°C	Mass Loss (%) @163°C	BBR S-value @-12°C	BBR m-value @-12°C	DTT Strain (%) @-12°C	DTT Stress (MPa) @-12°C	CRITICAL CRACK TEMP (°C)
IADOT	0.413	1.37	3.42	3,652	-0.083	231	0.313			
MNDOT	0.437	1.32	3.17	4,712	-0.063	206	0.323			
NCSPC	0.408	1.43	3.10	3,851	-0.090	197	0.327			
NDDOT	0.413	1.43	3.23	4,180	-0.062	222	0.322			
NEDOR	0.598	1.43	3.22	4,436	-0.091	215	0.322			
SDDOT	0.421	1.46	3.32	4,720	-0.011	207	0.331			
UW	0.391	1.26	2.73	3,280	-0.0003	182	0.345			
WISDOT	0.443	1.33	2.93	4,222	-0.068	206	0.306			
01	0.415	1.48	3.71	3,375	-0.006	214	0.322			
02	0.432	1.43	2.99	3,951	-0.112	221	0.332			
04	0.424	1.42	2.98	4,145	-0.037	214	0.328			
05	0.444	1.38	3.34	3,988	-0.055	207	0.320			
07	0.394	1.40	3.08	4,495	-0.060	210	0.332			
08	0.443	1.41	3.23	4,237	-0.053	214	0.327			
10	0.439	1.49	3.33	4,580	-0.052	200	0.324			
11	0.437	1.40	3.15	4,277	-0.110	225	0.331			
12	0.432	1.48	3.24	4,488	-0.135	212	0.321			
13	0.430	1.37	3.14	4,450	-0.033	211	0.326			
15	0.430	1.41	3.15	4,394	-0.110	200	0.334			
17	0.418	1.53	3.58	2,975	-0.011	213	0.328			
19	0.412	1.37	3.33	3,590	-0.154	215	0.328			
21	0.408	1.34	3.00	4,058	-0.089	223	0.327			
22	0.410	1.55	3.40	3,530	-0.105	226	0.326			
24	0.430	1.35	3.45	4,580	-0.049	225	0.334			
25	0.451	1.34	3.16	4,656	-0.051	224	0.327			
28	0.410	1.33	3.14	4,112	-0.078	222	0.323			
29	0.426	1.43	3.13	4,692	-0.045	217	0.326			
31	0.439	1.36	3.23	4,234	-0.052	203	0.328			
34	0.430	1.44	3.25	4,254	-0.105	234	0.326			
35	0.542	1.52	3.18	3,848	-0.061	226	0.316			
37	0.445	1.15	2.46	4,907	-0.144	220	0.320	1.40	4.28	-25.0
39	0.421	1.38	3.23	3,729	-0.048	206	0.325			
41	0.442	1.40	3.23	4,247	-0.047	202	0.334			
42	0.430	1.42	3.42	4,800	-0.110	221	0.322			
43	0.420	1.40	3.16	4,547	-0.070	228	0.325			
44	0.440	1.43	3.34	3,902	-0.047	210	0.323			
45	0.420	1.42	3.31	3,900	-0.045	214	0.325			
47	0.424	1.42	2.98	4,212	-0.039	215	0.329			
48	0.423	1.43	2.91	4,145	-0.109	222	0.328			
49	0.429	1.39	3.25	4,300	-0.072	212	0.317			
51	0.420	1.47	3.17	4,000	-0.134	216	0.327			
52	0.441	1.41	3.39	3,494	-0.055	216	0.320			
53	0.398	1.44	3.14	4,737	-0.103	213	0.320			
56	0.430	1.43	3.17	4,661	-0.084	224	0.320			
57	0.424	1.44	2.90	4,199	-0.069	212	0.326			
58	0.418	1.34	3.11	4,540	-0.129	224	0.322			
59	0.449	1.33	3.03	4,586	-0.046	222	0.325			
62	0.429	1.41	3.08	4,374	-0.094	233	0.324			
64	0.407	1.43	3.13	4,767	-0.090	214	0.314			
65	0.437	1.31	2.89	2,965	-0.087	194	0.326			
66	0.411	1.33	3.20	4,242	-0.088	227	0.319			
69	0.390	1.42	3.09	4,372	-0.047	206	0.327	1.47	4.29	-24.1
70	0.410	1.39	2.99	3,644	-0.030	203	0.336			
71	0.413	1.29	2.92	4,199	-0.062	201	0.340			
73	0.410	1.35	3.23	4,531	-0.075	205	0.342			
74	0.440	1.42	3.33	4,452	-0.054	202	0.329			
76	0.434	1.33	2.96	3,938	-0.052	205	0.328			
77	0.463	1.53	3.53	5,028	0.196	218	0.308			
78	0.420	1.35	3.18	4,760	-0.110	220	0.324			
81	0.420	1.34	3.18	4,725	-0.118	217	0.329			
85	0.437	1.41	3.04	4,458	-0.014	205	0.320			
87	0.420	1.43	3.27	4,171	-0.074	208	0.327			
89	0.438	1.38	3.16	4,208	-0.115	209	0.333			
90	0.408	1.35	3.12	4,121	-0.102	216	0.321			
93	0.436	1.42	3.19	4,397	-0.053	208	0.325			
95	0.438	1.37	3.56	4,032	-0.026	210	0.336			
97	0.412	1.42	3.45	3,830	-0.140	222	0.329			
98	0.424	1.35	3.25	4,020	-0.134	220	0.324			
99	0.413	1.35	2.96	4,046	-0.096	217	0.326			
Average	0.4290	1.3964	3.1772	4,205.04	-0.0703	213.90	0.3257	1.435	4.29	
Std. Dev.	0.0290	0.0649	0.2001	435.69	0.0485	9.76	0.0067	0.049	0.01	
Coef. of Var.	6.750	4.649	6.297	10.361	69.032	4.563	2.072	3.449	0.17	

COMBINED STATE BINDER GROUP ROUND ROBIN 2007-2
SUMMARY A

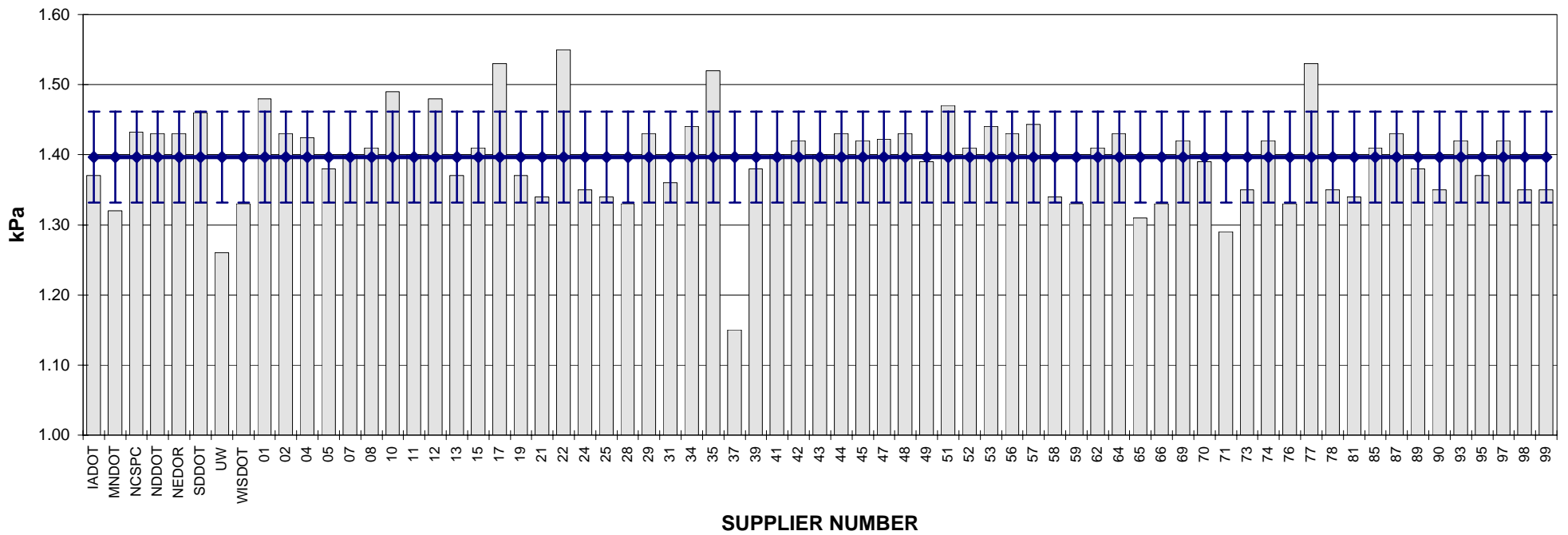
PG 64-22

ROTATIONAL VISCOSITY



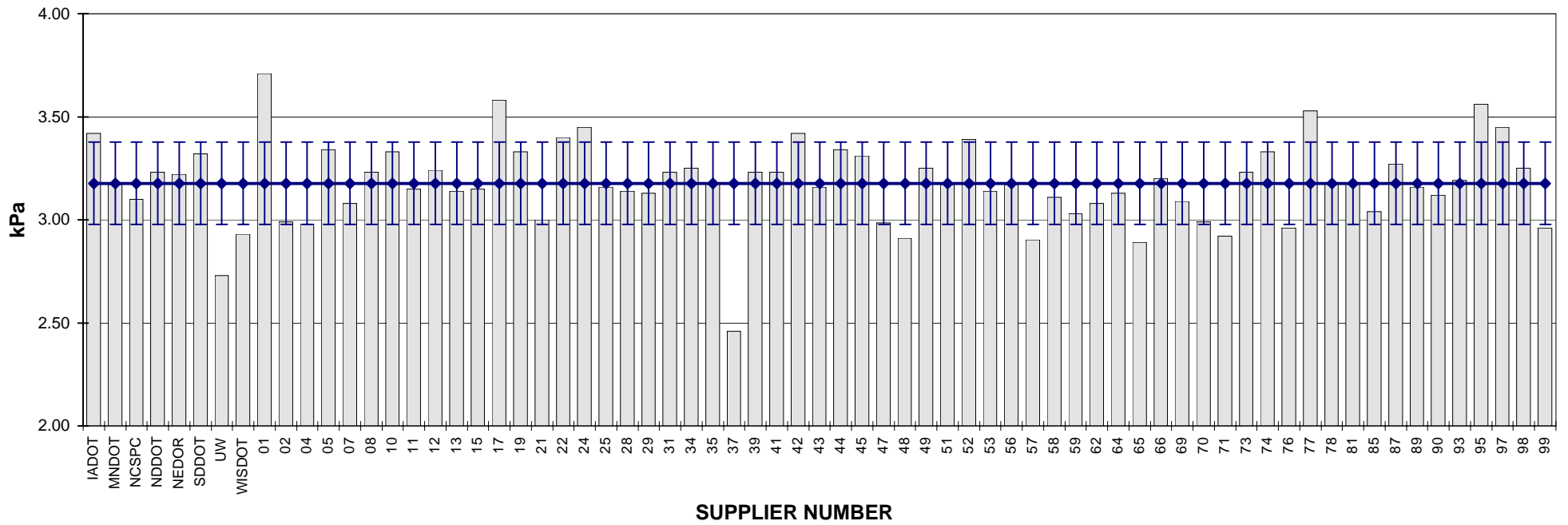
**COMBINED STATE BINDER GROUP ROUND ROBIN 2007-2
SUMMARY A
PG 64-22**

DSR - ORIGINAL

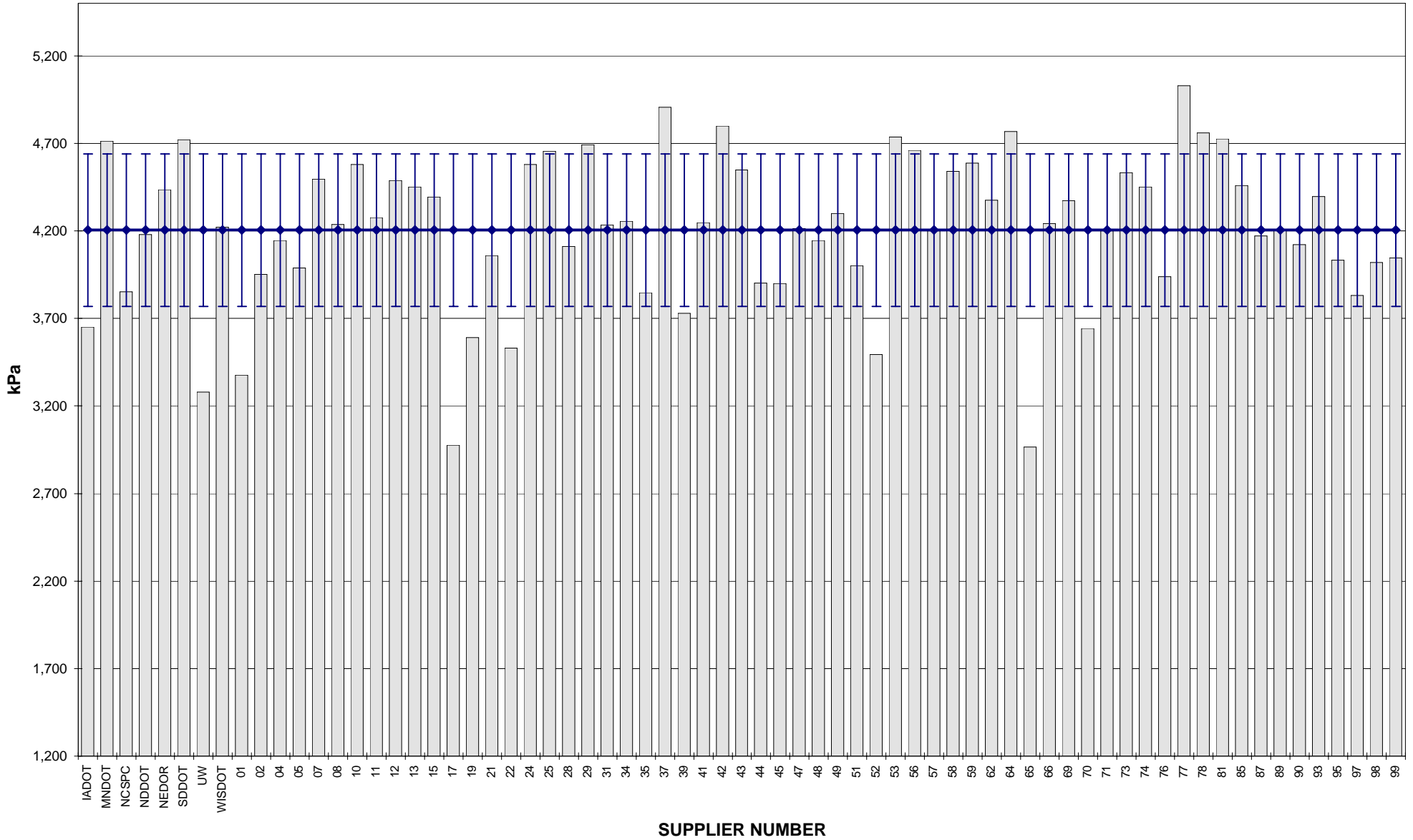


**COMBINED STATE BINDER GROUP ROUND ROBIN 2007-2
SUMMARY A
PG 64-22**

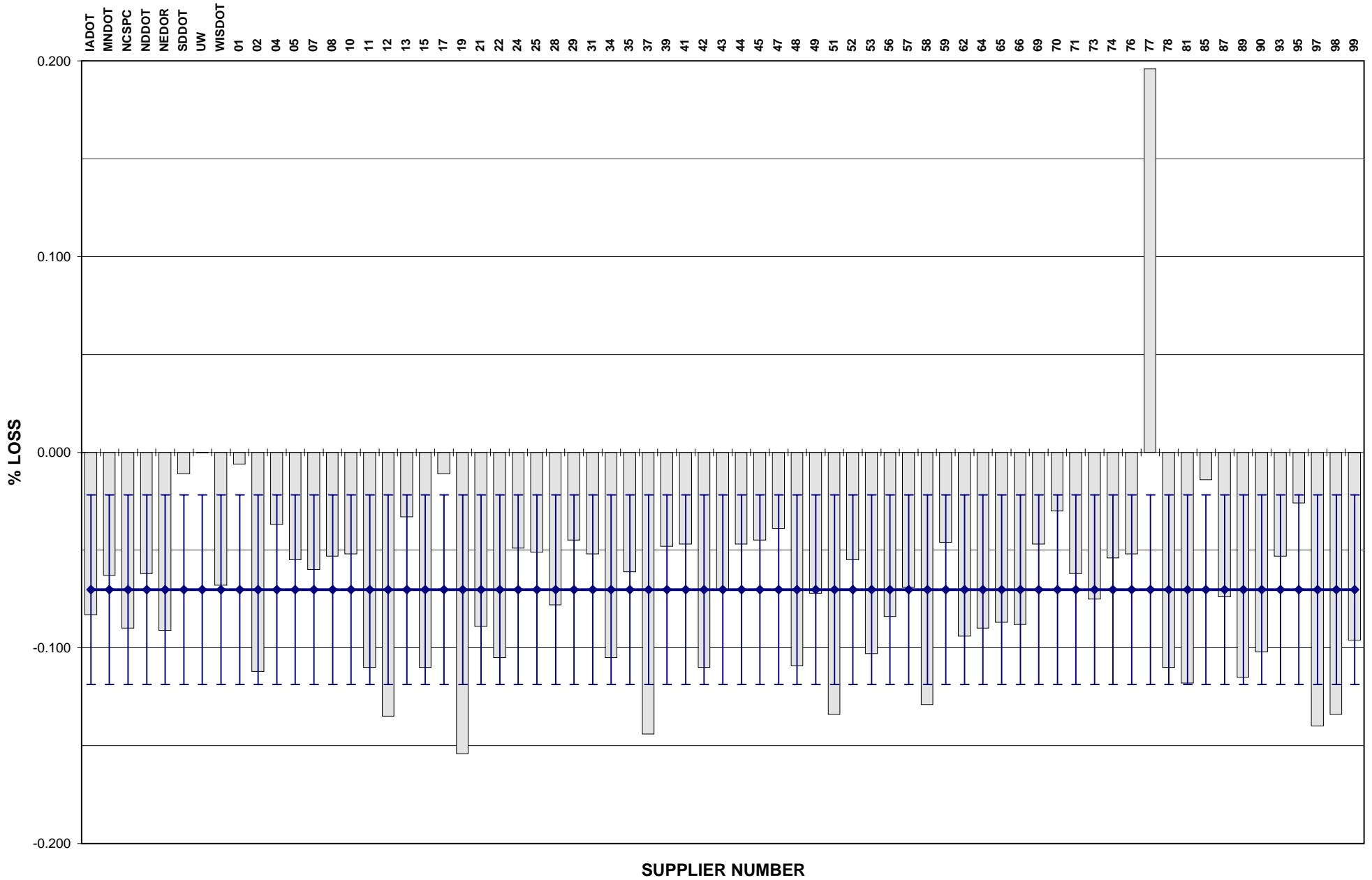
DSR - RTFO



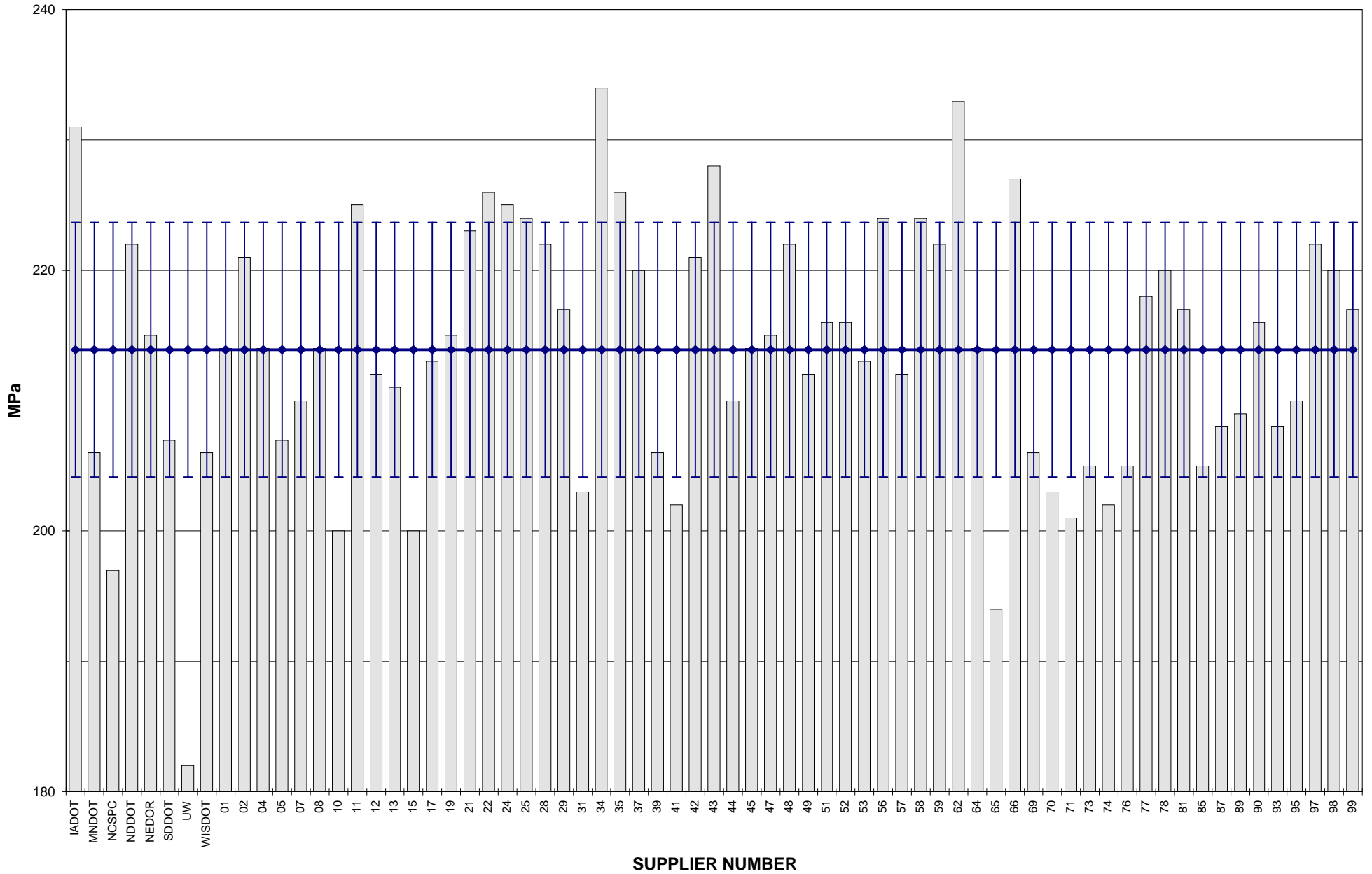
COMBINED STATE BINDER GROUP ROUND ROBIN 2007-2
SUMMARY A
PG 64-22
DSR - PAV



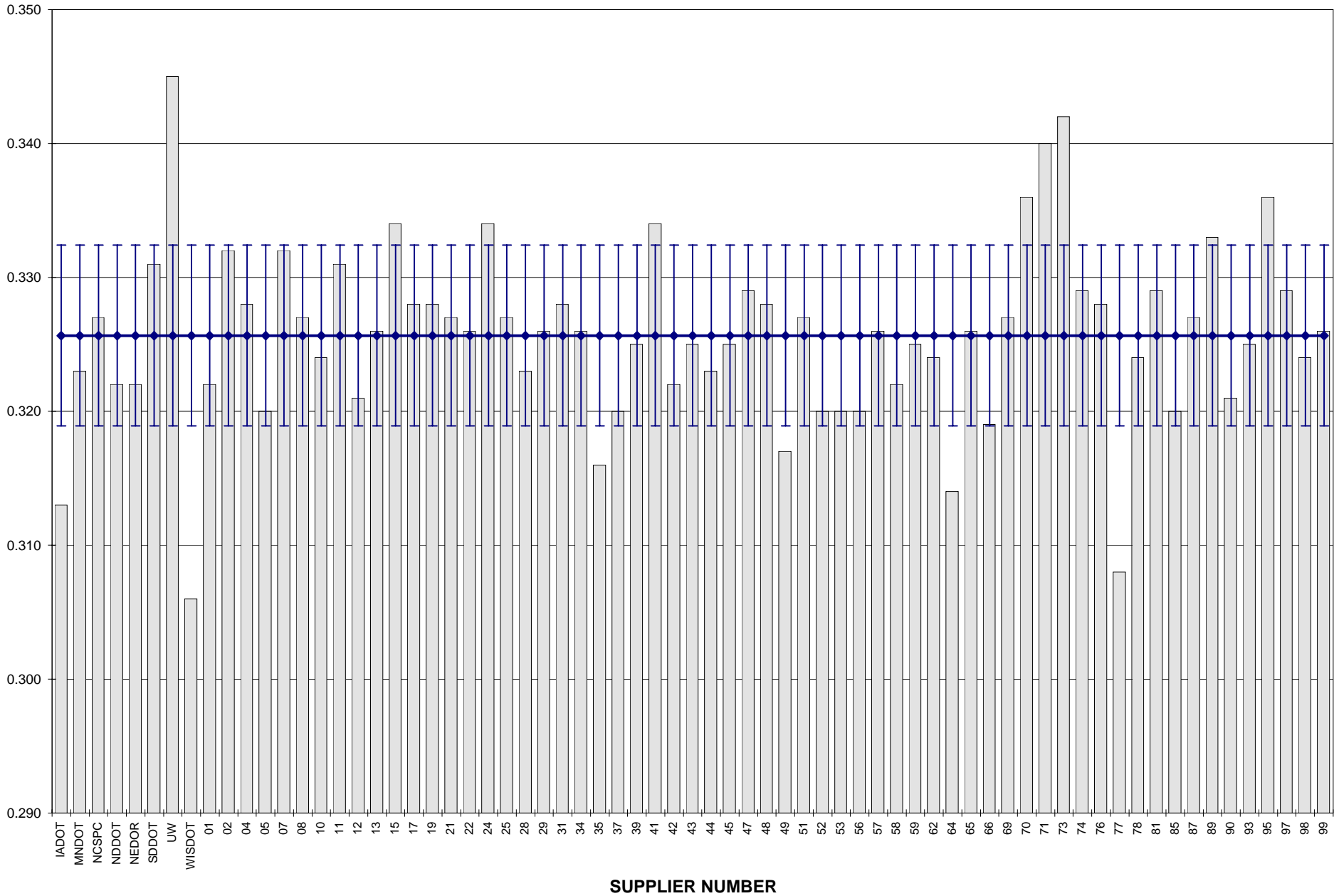
COMBINED STATE BINDER GROUP ROUND ROBIN 2007-2
SUMMARY A
PG 64-22
RTFO MASS LOSS



COMBINED STATE BINDER GROUP ROUND ROBIN 2007-2
SUMMARY A
PG 64-22
BBR STIFFNESS



COMBINED STATE BINDER GROUP ROUND ROBIN 2007-2
SUMMARY A
PG 64-22
BBR m-VALUE



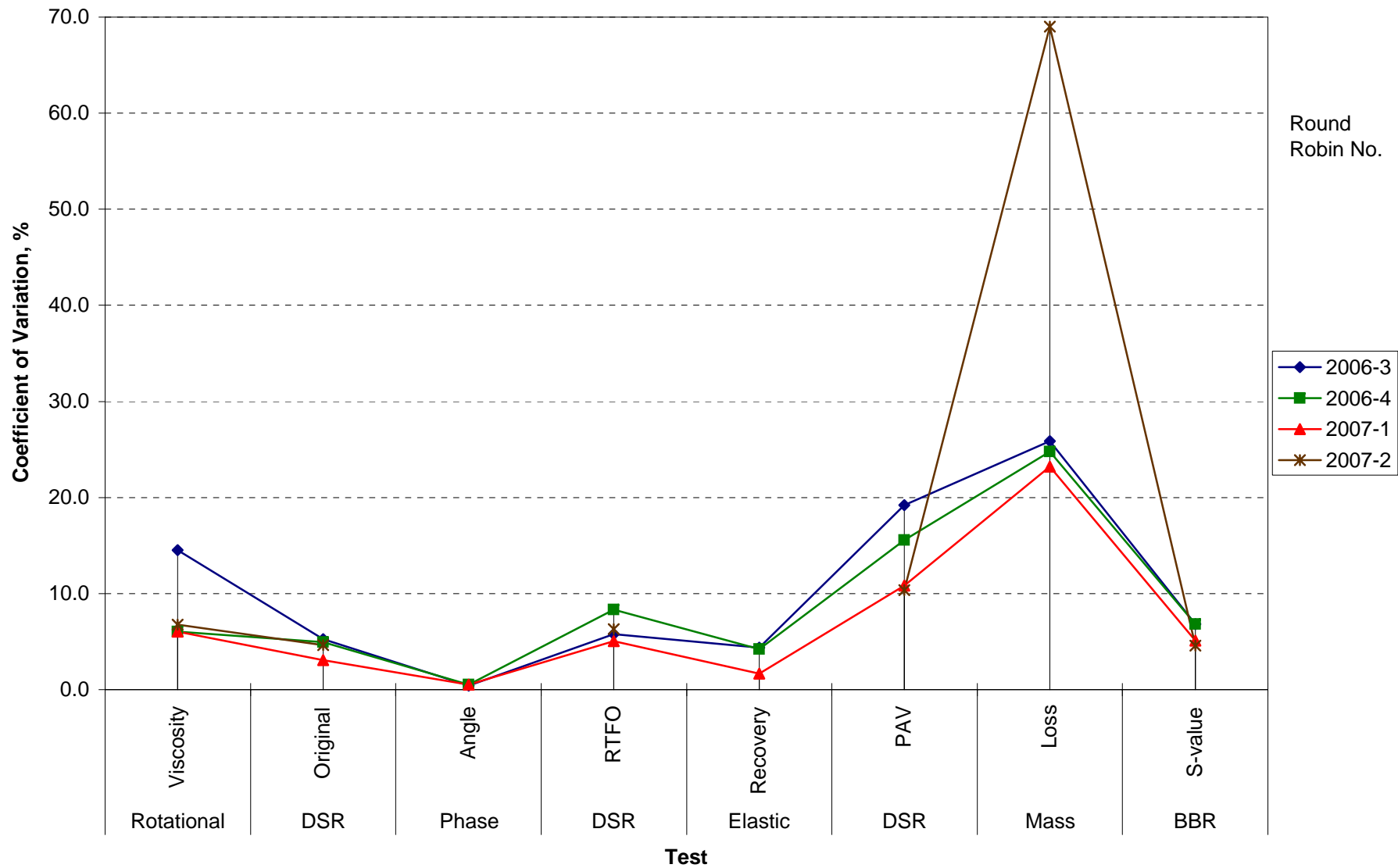
**COMBINED STATE BINDER GROUP ROUND ROBIN 2007-2
SUMMARY A**

COEFFICIENT OF VARIATION

Round Robin No.	Number of Participants	Coefficient of Variation, %									
		Rotational Viscosity	DSR Original	Phase Angle	DSR RTFO	Elastic Recovery	DSR PAV	Mass Loss	BBR S-value	BBR m-value	DTT Strain
2006-3	75	14.526	5.259	0.417	5.762	4.346	19.183	25.848	6.829	2.219	23.743
2006-4	74	6.040	4.957	0.523	8.340	4.201	15.562	24.755	6.799	2.734	21.909
2007-1	79	6.037	3.046	0.503	5.070	1.642	10.808	23.197	5.096	1.905	29.782
2007-2	69	6.750	4.649		6.297		10.361	69.032	4.563	2.072	3.449

**COMBINED STATE BINDER GROUP ROUND ROBIN 2007-2
SUMMARY A**

COEFFICIENT OF VARIATION



**COMBINED STATE BINDER GROUP ROUND ROBIN 2007-2
SUMMARY A
PG 64-22**

STATISTICS WITH OUTLIERS REMOVED:

	Rotational Viscosity (Pa.s) @135°C	DSR Original (kPa) @64°C	DSR RTFO (kPa) @64°C	DSR PAV (kPa) @25°C	Mass Loss (%) @163°C	BBR S-value (MPa) @-12°C	BBR m-value @-12°C
Average	0.425	1.40	3.19	4,205	-0.074	214	0.326
Std. Dev.	0.0148	0.0579	0.1812	435.69	0.0362	9.02	0.0067
Coef. of Var.	3.495	4.139	5.685	10.361	48.863	4.206	2.072