



Combined State Binder Group

Method of Acceptance for
Asphalt Binders

RR 2007-2
SUMMARY B

COMBINED STATE BINDER GROUP ROUND ROBIN 2007-2
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Supplier Number	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
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	0.000	182	0.345
WISDOT	0.443	1.33	2.93	4,222	-0.068	206	0.306
07	0.394	1.40	3.08	4,495	-0.060	210	0.332
12	0.432	1.48	3.24	4,488	-0.135	212	0.321
22	0.410	1.55	3.40	3,530	-0.105	226	0.326
29	0.426	1.43	3.13	4,692	-0.045	217	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
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
49	0.429	1.39	3.25	4,300	-0.072	212	0.317
65	0.437	1.31	2.89	2,965	-0.087	194	0.326
69	0.390	1.42	3.09	4,372	-0.047	206	0.327
70	0.410	1.39	2.99	3,644	-0.030	203	0.336
77	0.463	1.53	3.53	5,028	0.196	218	0.308
95	0.438	1.37	3.56	4,032	-0.026	210	0.336
A	0.417	1.40	3.30	3,860	-0.141	218	0.327
B	0.418	1.48	3.53	3,417	-0.021	214	0.325
C	0.410	1.34	3.08	4,116	-0.091	221	0.323
E	0.434	1.40	3.16	4,301	-0.113	205	0.334
F	0.430	1.42	3.09	4,277	-0.102	227	0.327
J	0.441	1.41	3.30	4,142	-0.052	207	0.326
L	0.450	1.34	3.10	4,621	-0.049	223	0.326
M	0.424	1.43	2.96	4,185	-0.048	214	0.328
O	0.436	1.37	3.00	4,198	-0.033	205	0.324
P	0.412	1.32	3.08	4,365	-0.069	203	0.341
S	0.403	1.44	3.14	4,752	-0.097	214	0.317
T	0.421	1.41	3.25	3,950	-0.061	207	0.326
U	0.432	1.38	3.26	4,476	-0.045	215	0.328
V	0.419	1.34	3.16	4,675	-0.119	220	0.325
Average	0.432	1.40	3.16	4,223	-0.064	213	0.325
Std. Dev.	0.0383	0.0754	0.2185	478.70	0.0570	10.35	0.0079
Coef. of Var.	8.884	5.398	6.905	11.335	89.118	4.863	2.424

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A	Rot. Visc.	ODSR	RTFO DSR	PAV DSR	Mass Loss	S-value	m-value
19	0.412	1.37	3.33	3,590	-0.154	215	0.328
51	0.420	1.47	3.17	4,000	-0.134	216	0.327
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
Average	0.417	1.40	3.30	3,860	-0.141	218	0.327

B	Rot. Visc.	ODSR	RTFO DSR	PAV DSR	Mass Loss	S-value	m-value
01	0.415	1.48	3.71	3,375	-0.006	214	0.322
17	0.418	1.53	3.58	2,975	-0.011	213	0.328
45	0.420	1.42	3.31	3,900	-0.045	214	0.325
Average	0.418	1.48	3.53	3,417	-0.021	214	0.325

C	Rot. Visc.	ODSR	RTFO DSR	PAV DSR	Mass Loss	S-value	m-value
21	0.408	1.34	3.00	4,058	-0.089	223	0.327
28	0.410	1.33	3.14	4,112	-0.078	222	0.323
66	0.411	1.33	3.20	4,242	-0.088	227	0.319
90	0.408	1.35	3.12	4,121	-0.102	216	0.321
99	0.413	1.35	2.96	4,046	-0.096	217	0.326
Average	0.410	1.34	3.08	4,116	-0.091	221	0.323

E	Rot. Visc.	ODSR	RTFO DSR	PAV DSR	Mass Loss	S-value	m-value
15	0.43	1.41	3.15	4394	-0.11	200	0.334
89	0.438	1.38	3.16	4208	-0.115	209	0.333
Average	0.434	1.40	3.16	4,301	-0.113	205	0.334

F	Rot. Visc.	ODSR	RTFO DSR	PAV DSR	Mass Loss	S-value	m-value
02	0.432	1.43	2.99	3,951	-0.112	221	0.332
11	0.437	1.40	3.15	4,277	-0.110	225	0.331
34	0.430	1.44	3.25	4,254	-0.105	234	0.326
48	0.423	1.43	2.91	4,145	-0.109	222	0.328
56	0.430	1.43	3.17	4,661	-0.084	224	0.320
62	0.429	1.41	3.08	4,374	-0.094	233	0.324
Average	0.430	1.42	3.09	4,277	-0.102	227	0.327

J	Rot. Visc.	ODSR	RTFO DSR	PAV DSR	Mass Loss	S-value	m-value
05	0.444	1.38	3.34	3,988	-0.055	207	0.320
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
31	0.439	1.36	3.23	4,234	-0.052	203	0.328
41	0.442	1.40	3.23	4,247	-0.047	202	0.334
44	0.440	1.43	3.34	3,902	-0.047	210	0.323
52	0.441	1.41	3.39	3,494	-0.055	216	0.320
74	0.440	1.42	3.33	4,452	-0.054	202	0.329
Average	0.441	1.41	3.30	4,142	-0.052	207	0.326

L	Rot. Visc.	ODSR	RTFO DSR	PAV DSR	Mass Loss	S-value	m-value
25	0.451	1.34	3.16	4,656	-0.051	224	0.327
59	0.449	1.33	3.03	4,586	-0.046	222	0.325
Average	0.450	1.34	3.10	4,621	-0.049	223	0.326

M	Rot. Visc.	ODSR	RTFO DSR	PAV DSR	Mass Loss	S-value	m-value
04	0.424	1.42	2.98	4,145	-0.037	214	0.328
47	0.424	1.42	2.98	4,212	-0.039	215	0.329
57	0.424	1.44	2.90	4,199	-0.069	212	0.326
Average	0.424	1.43	2.96	4,185	-0.048	214	0.328

O	Rot. Visc.	ODSR	RTFO DSR	PAV DSR	Mass Loss	S-value	m-value
85	0.437	1.41	3.04	4458	-0.014	205	0.320
76	0.434	1.33	2.96	3938	-0.052	205	0.328
Average	0.436	1.37	3.00	4,198	-0.033	205	0.324

P	Rot. Visc.	ODSR	RTFO DSR	PAV DSR	Mass Loss	S-value	m-value
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
Average	0.412	1.32	3.08	4,365	-0.069	203	0.341

S	Rot. Visc.	ODSR	RTFO DSR	PAV DSR	Mass Loss	S-value	m-value
53	0.398	1.44	3.14	4737	-0.103	213	0.320
64	0.407	1.43	3.13	4767	-0.090	214	0.314
Average	0.403	1.435	3.14	4752	-0.097	214	0.317

T	Rot. Visc.	ODSR	RTFO DSR	PAV DSR	Mass Loss	S-value	m-value
39	0.421	1.38	3.23	3729	-0.048	206	0.325
87	0.420	1.43	3.27	4171	-0.074	208	0.327
Average	0.421	1.41	3.25	3950	-0.061	207	0.326

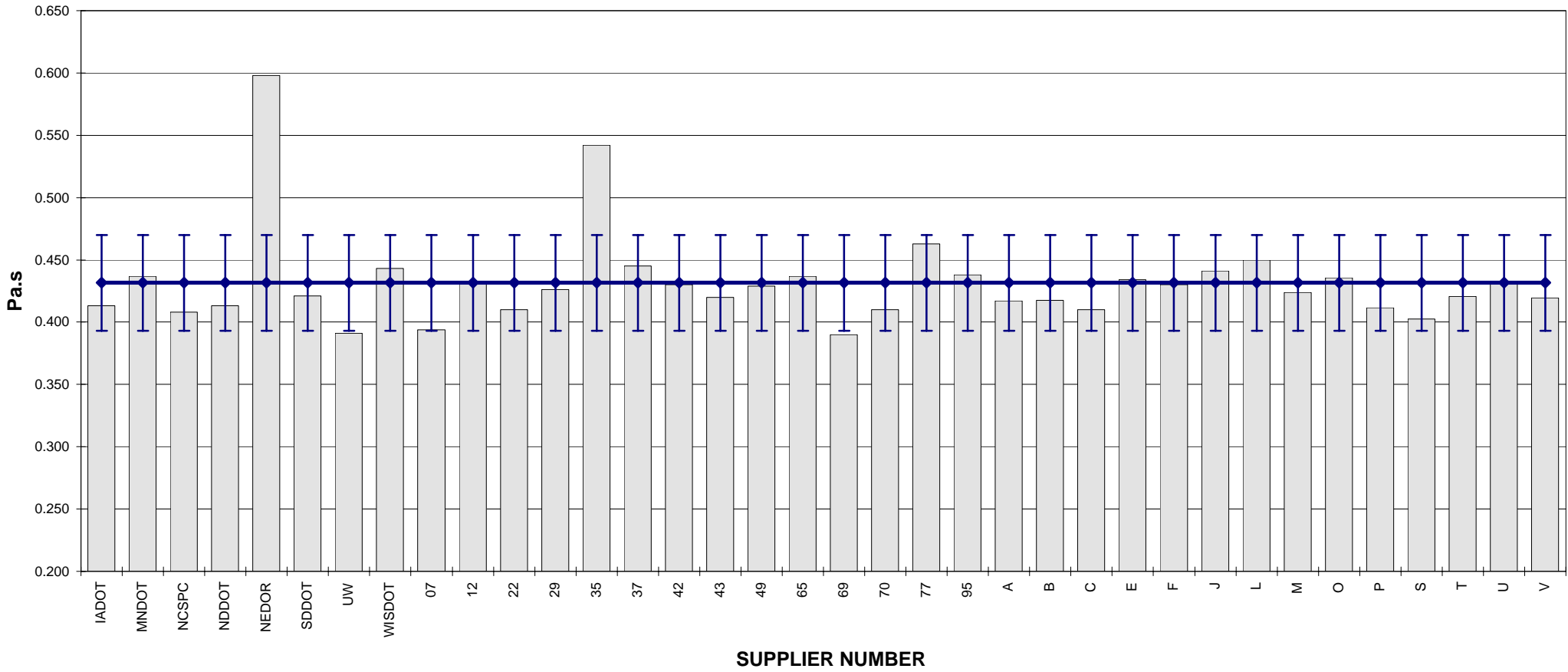
U	Rot. Visc.	ODSR	RTFO DSR	PAV DSR	Mass Loss	S-value	m-value
24	0.430	1.35	3.45	4580	-0.049	225	0.334
13	0.430	1.37	3.14	4450	-0.033	211	0.326
93	0.436	1.42	3.19	4397	-0.053	208	0.325
Average	0.432	1.38	3.26	4476	-0.045	215	0.328

V	Rot. Visc.	ODSR	RTFO DSR	PAV DSR	Mass Loss	S-value	m-value
58	0.418	1.34	3.11	4540	-0.129	224	0.322
78	0.420	1.35	3.18	4760	-0.110	220	0.324
81	0.420	1.34	3.18	4725	-0.118	217	0.329
Average	0.419	1.34	3.16	4675	-0.119	220	0.325

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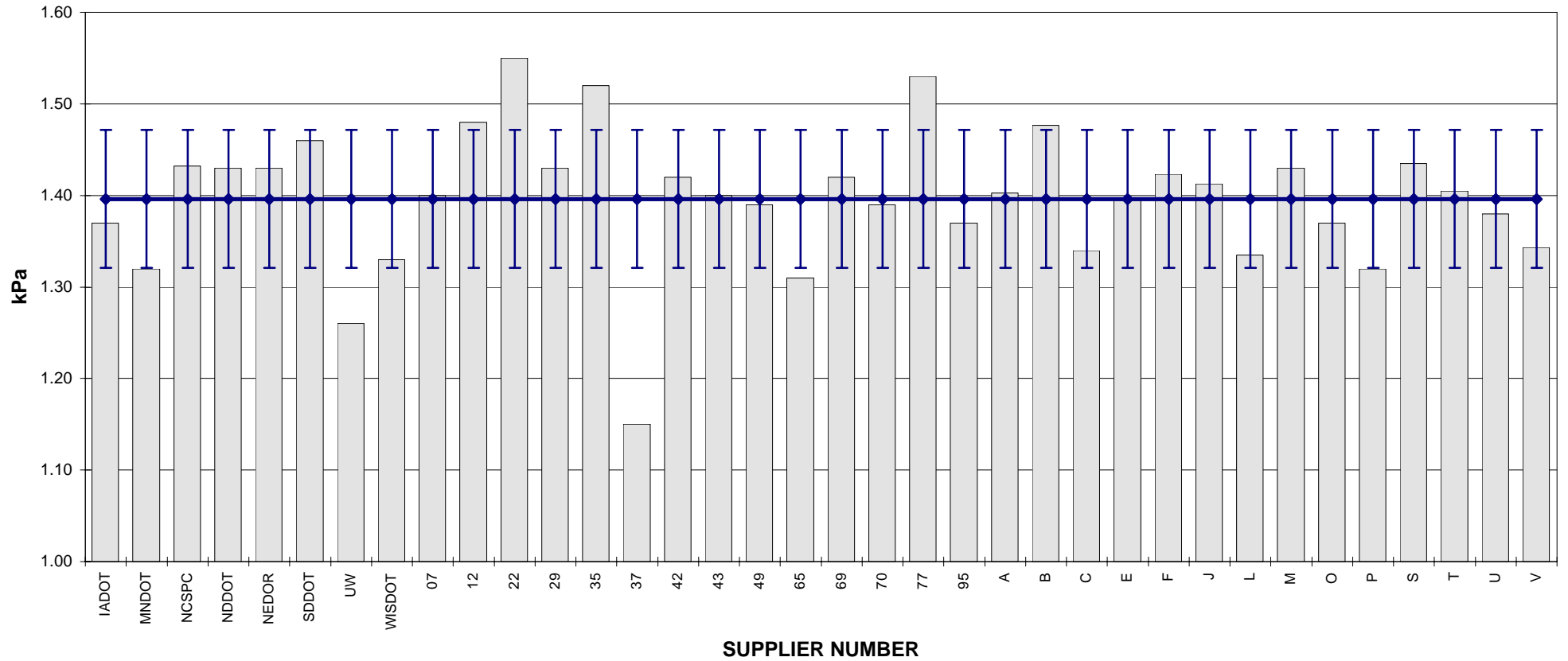
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ROTATIONAL VISCOSITY



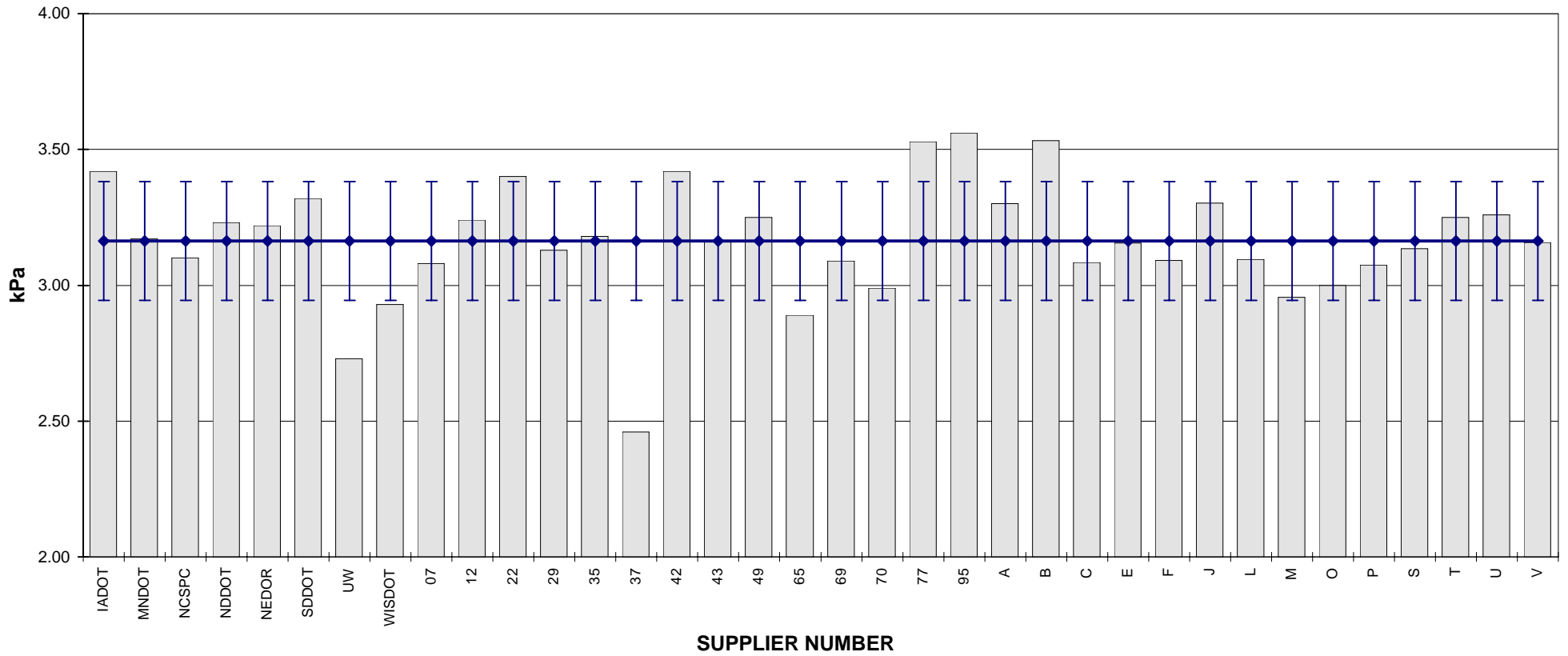
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DSR - ORIGINAL

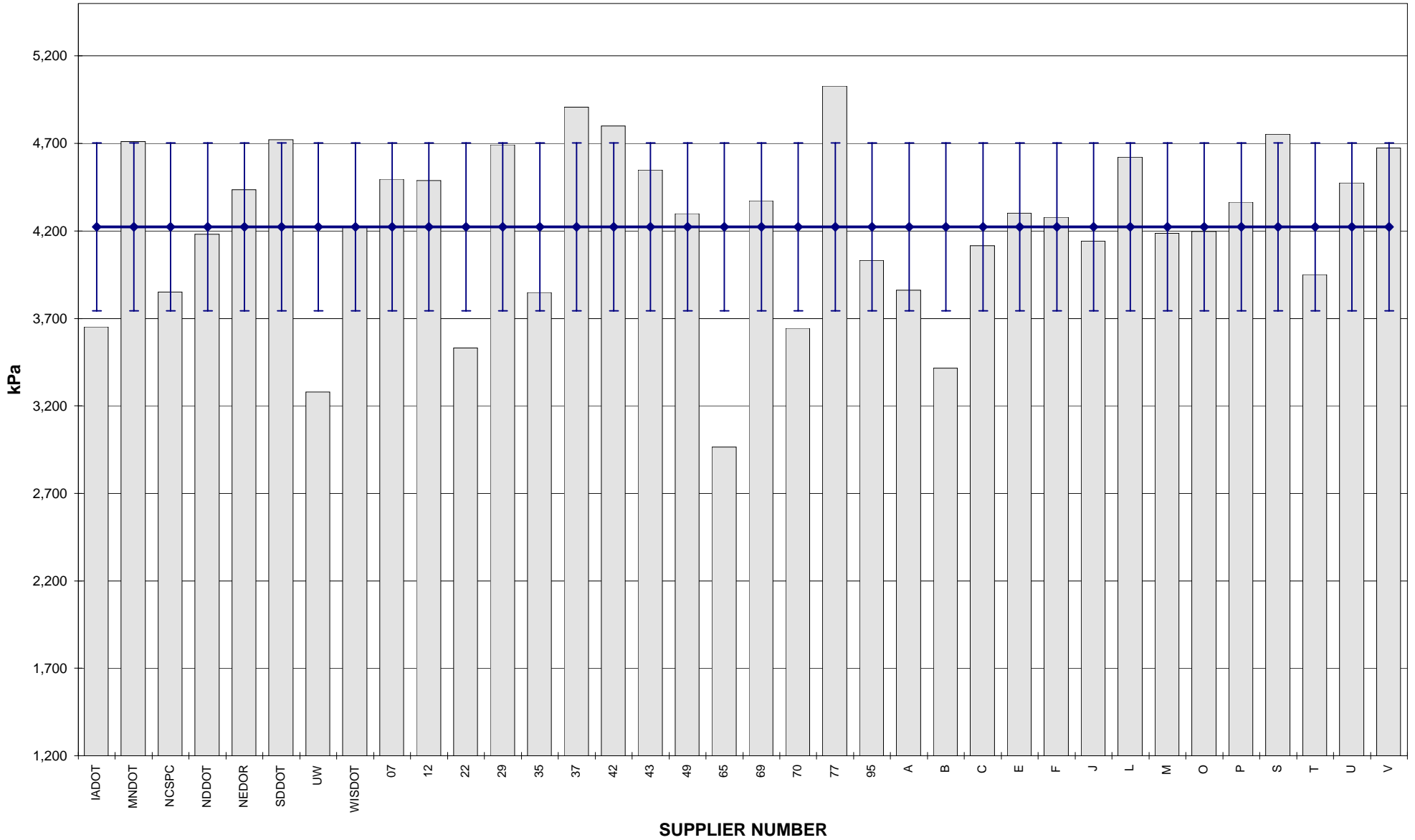


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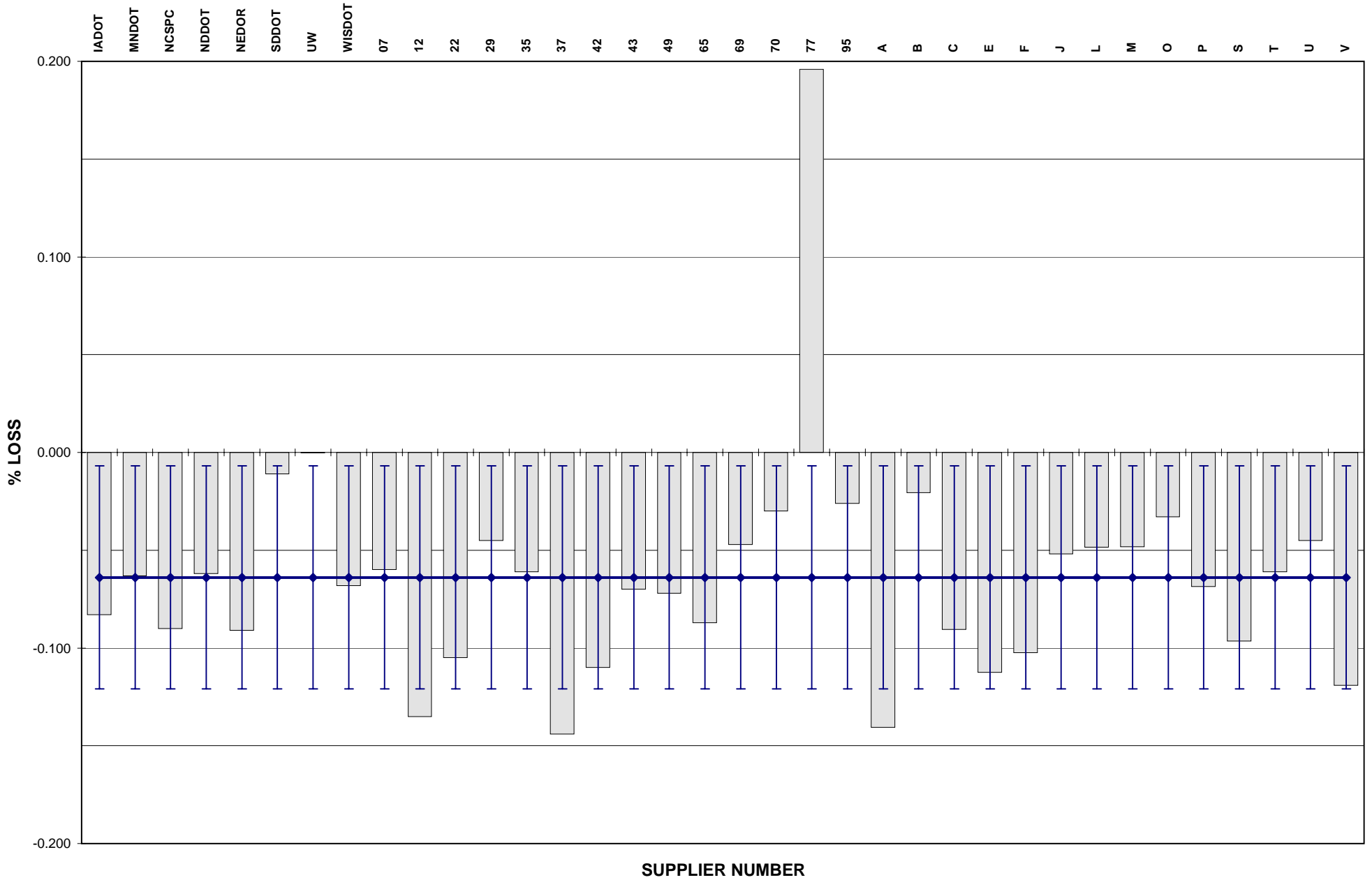
DSR - RTFO



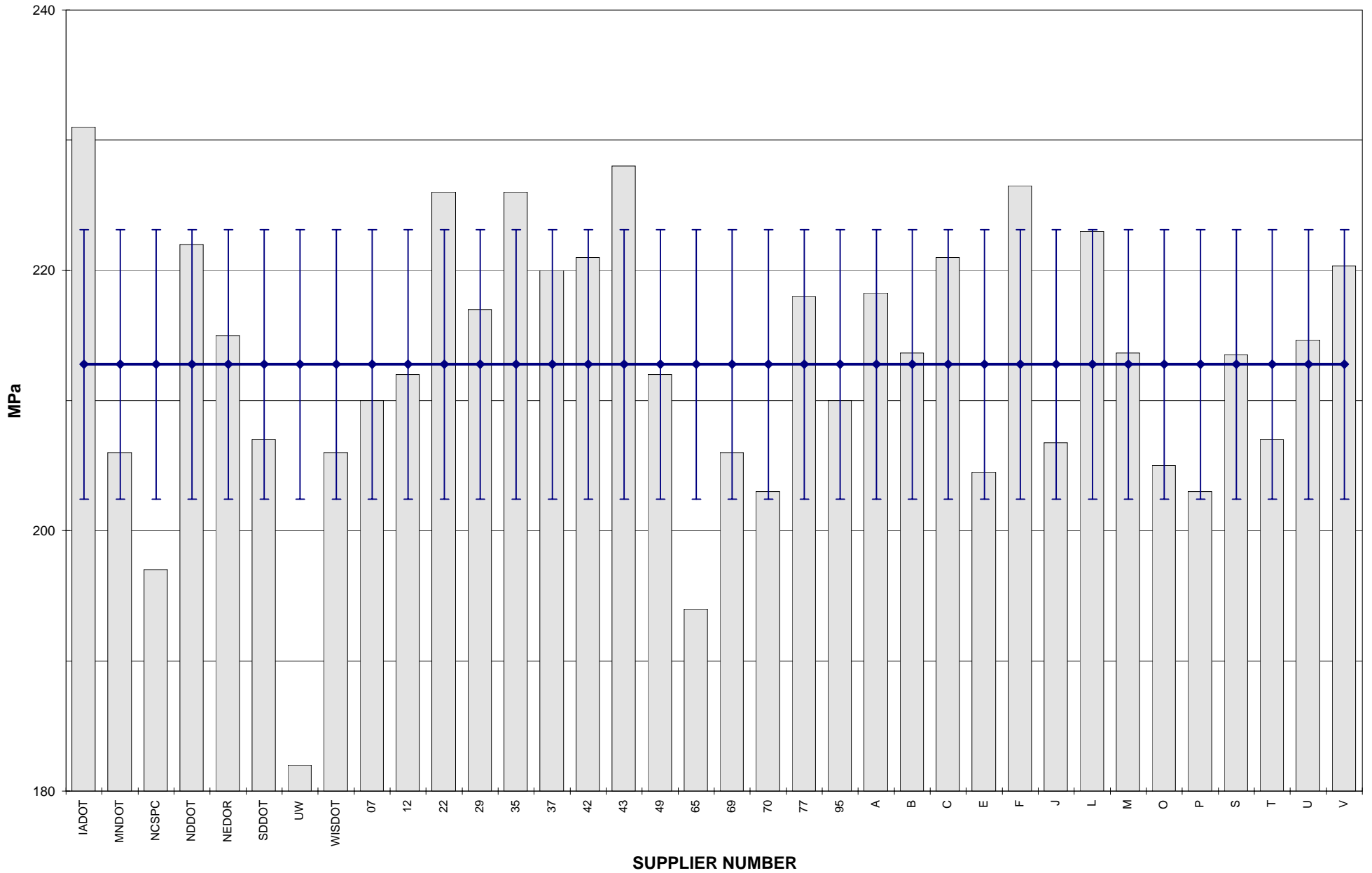
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DSR - PAV



COMBINED STATE BINDER GROUP ROUND ROBIN 2007-2
 SUMMARY B
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RTFO MASS LOSS



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



COMBINED STATE BINDER GROUP ROUND ROBIN 2007-2
SUMMARY B
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BBR m-VALUE

