

COMBINED STATE BINDER GROUP ROUND ROBIN 2012-1 SUMMARY B
PG 58-28

Supplier Number	Rotational Viscosity (Pa.s) @135°C	DSR Original (kPa) @58°C	DSR RTFO (kPa) @58°C	DSR PAV (kPa) @19°C	Mass Loss (%) @163°C	BBR S-value (MPa) @-18°C	BBR m-value @-18°C
IADOT	0.270	1.25	3.20	4320	-0.360	227	0.310
MNDOT	0.250	1.06	3.03	3839	-0.387	211	0.325
NCSPC	0.252	1.28	3.73	4630	-0.446	230	0.316
NDDOT	0.263	1.21	2.89	4410	-0.318	215	0.308
NEDOR	0.227	1.24	3.40	4635	-0.216	231	0.311
SDDOT	0.238	1.20	3.19	4346	-0.299	221	0.319
UW	0.275	1.59	4.00	4823	-0.049	237	0.317
WISDOT							
07	0.253	1.22	2.65	3992	-0.238	237	0.316
12	0.250	1.16	3.36	5372	-0.404	230	0.323
29	0.271	1.23	3.38	3888	-0.388	237	0.322
35	0.265	1.23	3.26	4860	-0.252	239	0.308
37	0.270	1.21	2.84	4835	-0.287	238	0.319
42							
43	0.253	1.23	2.89	4630	-0.250	240	0.317
49	0.259	1.19	3.38	4510	-0.374	230	0.311
60	0.280	1.09	2.78	4610	-0.378	225	0.316
65	0.253	1.20	3.04	4254	-0.301	224	0.326
69	0.259	1.22	2.77	4164	-0.298	230	0.318
70	0.253	1.24	3.16	4094	-0.277	224	0.326
77	0.240	1.22	3.25	4790	-0.274	235	0.314
83	0.269	1.19	3.09	4324	-0.246	230	0.323
95	0.260	1.17	3.10	4323	-0.259	222	0.319
A	0.241	1.20	3.19	4233	-0.339	247	0.320
B	0.305	1.35	3.57	4558	-0.262	227	0.317
C	0.271	1.16	3.08	4492	-0.276	248	0.303
E	0.269	1.19	3.10	3945	-0.333	224	0.320
F	0.265	1.22	3.08	4,340	-0.261	248	0.310
J	0.267	1.16	3.14	4343	-0.346	231	0.313
L	0.276	1.21	3.22	3424	-0.359	225	0.319
M	0.237	1.35	3.27	4838	-0.257	240	0.307
O	0.258	1.18	3.06	2,840	-0.318	223	0.331
P	0.267	1.24	3.18	4290	-0.319	223	0.320
Q	0.234	1.15	3.04	4769	-0.244	239	0.314
S		1.25	3.40		-0.355	217	0.316
U	0.271	1.13	3.06	4413	-0.274	240	0.317
V	0.253	1.17	3.43	4687	-0.375	236	0.316
Average	0.259	1.22	3.18	4,377	-0.303	231	0.317
Std. Dev.	0.0154	0.0868	0.2682	457.13	0.0715	9.15	0.0060
Coef. of Var.	5.937	7.135	8.441	10.444	23.573	3.963	1.906

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SUMMARY B
PG 58-28

A	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
19	0.240	1.20	3.19	4340	-0.372	246	0.320
51	0.240	1.19	3.10	4340	-0.306	250	0.317
97	0.242	1.18	3.25	4390	-0.328	246	0.317
98	0.240	1.21	3.22	3860	-0.350	247	0.324
Average	0.241	1.20	3.19	4,233	-0.339	247	0.320

B	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
01	0.265	1.32	3.77	4745	-0.244	220	0.315
17	0.325	1.37	3.38	4502	-0.292	230	0.315
45	0.325	1.37	3.57	4426	-0.251	230	0.320
Average	0.305	1.35	3.57	4,558	-0.262	227	0.317

C	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
28	0.274	1.15	2.99	4193	-0.297	243	0.304
66	0.275	1.20	3.05	4385	-0.269	248	0.302
90	0.269	1.11	3.26	4830	-0.276	253	0.300
99	0.266	1.16	3.03	4561	-0.260	248	0.306
Average	0.271	1.16	3.08	4492	-0.276	248	0.303

E	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
15	0.270	1.19	3.12	4296	-0.336	225	0.321
89	0.268	1.19	3.08	3594	-0.330	223	0.319
Average	0.269	1.19	3.10	3945	-0.333	224	0.320

F	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
02	0.264	1.22	2.95	4386	-0.279	239	0.314
11	0.263	1.22	2.97	4429	-0.204	253	0.312
34	0.272	1.22	3.02	4061	-0.296	245	0.308
48	0.257	1.23	3.18	4070	-0.308	239	0.309
56	0.276	1.20	3.09	4569	-0.230	252	0.307
62	0.258	1.22	3.29	4523	-0.246	261	0.307
Average	0.265	1.22	3.08	4,340	-0.261	248	0.310

J	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
05	0.270	1.15	3.11	3809	-0.370	225	0.315
08	0.266	1.16	3.13	4900	-0.330	229	0.313
10	0.266	1.16	3.20	4608	-0.342	226	0.312
22	0.265	1.16	3.15	4083	-0.345	232	0.312
31	0.264	1.15	3.11	4129	-0.354	236	0.310
39	0.268	1.17	3.17	4683	-0.333	232	0.317
41	0.265	1.17	3.13	4512	-0.334	235	0.314
44	0.267	1.16	3.13	4598	-0.359	238	0.313
52	0.269	1.15	3.18	4089	-0.335	239	0.309
87	0.266	1.15	3.11	4023	-0.361	222	0.310
Average	0.267	1.16	3.14	4343	-0.346	231	0.313

L	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
25	0.278	1.25	3.44	4658	-0.353	231	0.319
59	0.273	1.17	2.99	2189	-0.364	218	0.319
Average	0.276	1.21	3.22	3424	-0.359	225	0.319

M	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
04	0.235	1.34	3.27	4794	-0.260	239	0.307
47	0.240	1.41	3.27	4861	-0.254	240	0.307
57	0.235	1.30	3.27	4859	-0.258	240	0.307
Average	0.237	1.35	3.27	4838	-0.257	240	0.307

O	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
76	0.258	1.18	3.06	2840	-0.318	223	0.331
85							
Average	0.258	1.18	3.06	2840	-0.318	223	0.331

P	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
30	0.258	1.23	3.16	4185	-0.332	217	0.316
71	0.270	1.28	3.20	4371	-0.286	226	0.323
73	0.272	1.20	3.17	4315	-0.339	226	0.322
Average	0.267	1.24	3.18	4290	-0.319	223	0.320

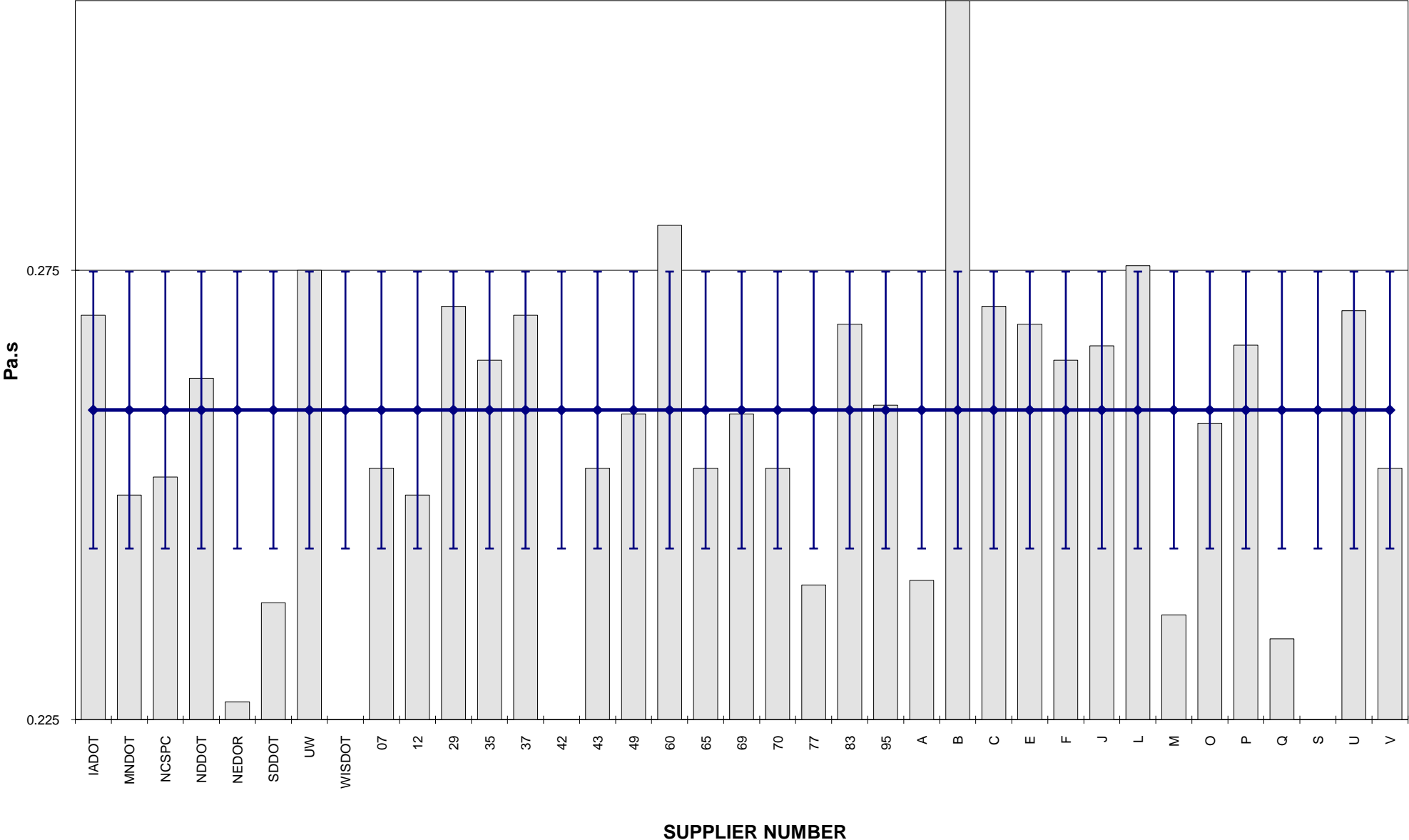
Q	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
23	0.235	1.16	3.05	4851	-0.246	237	0.314
93	0.233	1.13	3.03	4687	-0.242	241	0.314
Average	0.234	1.15	3.04	4769	-0.244	239	0.314

S	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
53		1.25	3.57		-0.370	219	0.310
64		1.24	3.23		-0.340	214	0.322
Average	#DIV/0!	1.25	3.40	#DIV/0!	-0.355	217	0.316

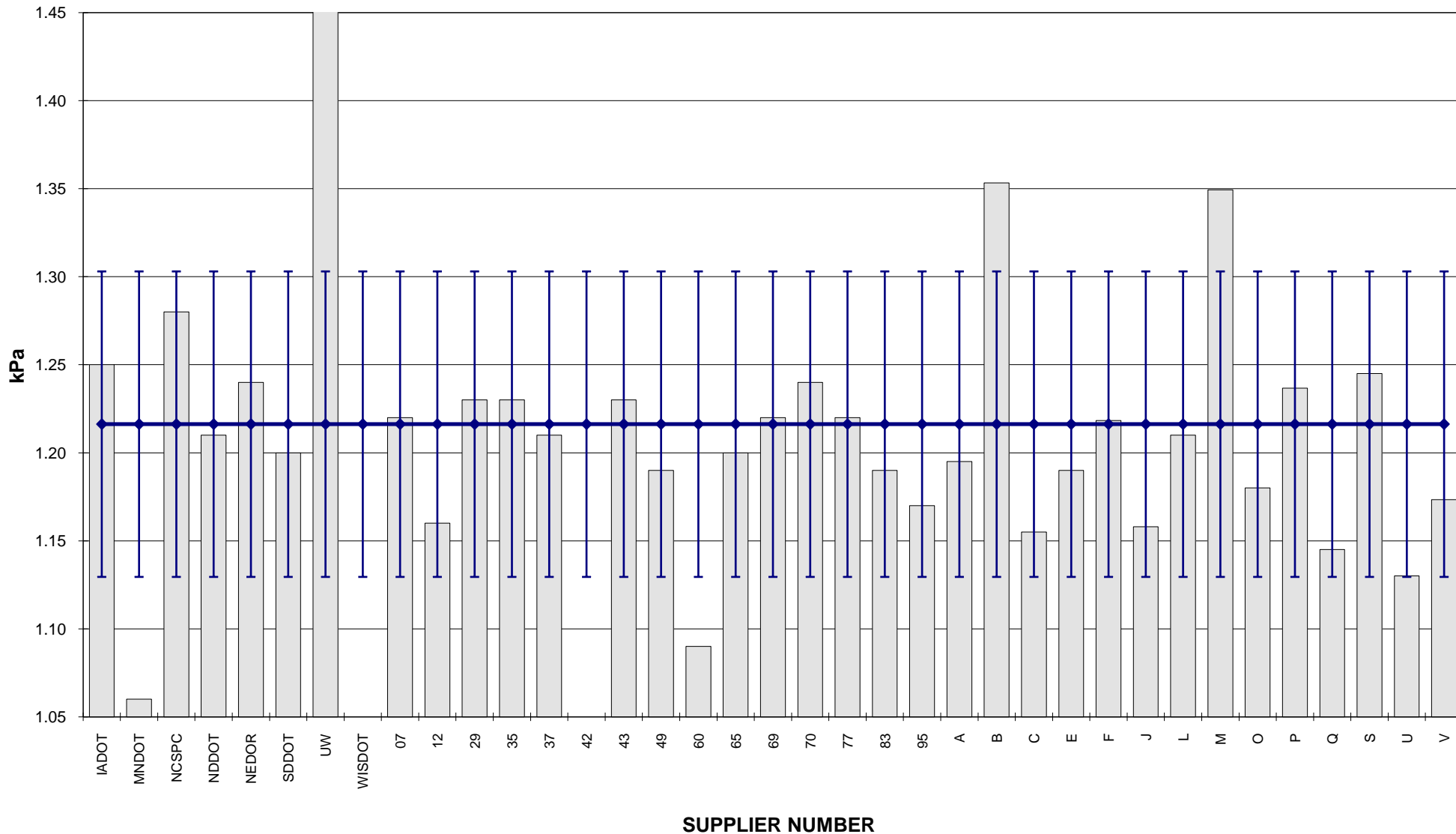
U	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
13	0.266	1.13	3.08	4575	-0.242	236	0.32
24	0.275	1.13	3.04	4250	-0.306	243	0.313
Average	0.271	1.130	3.060	4412.500	-0.274	239.500	0.317

V	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
58	0.253	1.18	3.39	4440	-0.375	235	0.315
78	0.253	1.17	3.38	4810	-0.375	236	0.316
81	0.253	1.17	3.51	4810	-0.374	238	0.316
Average	0.253	1.17	3.43	4687	-0.375	236	0.316

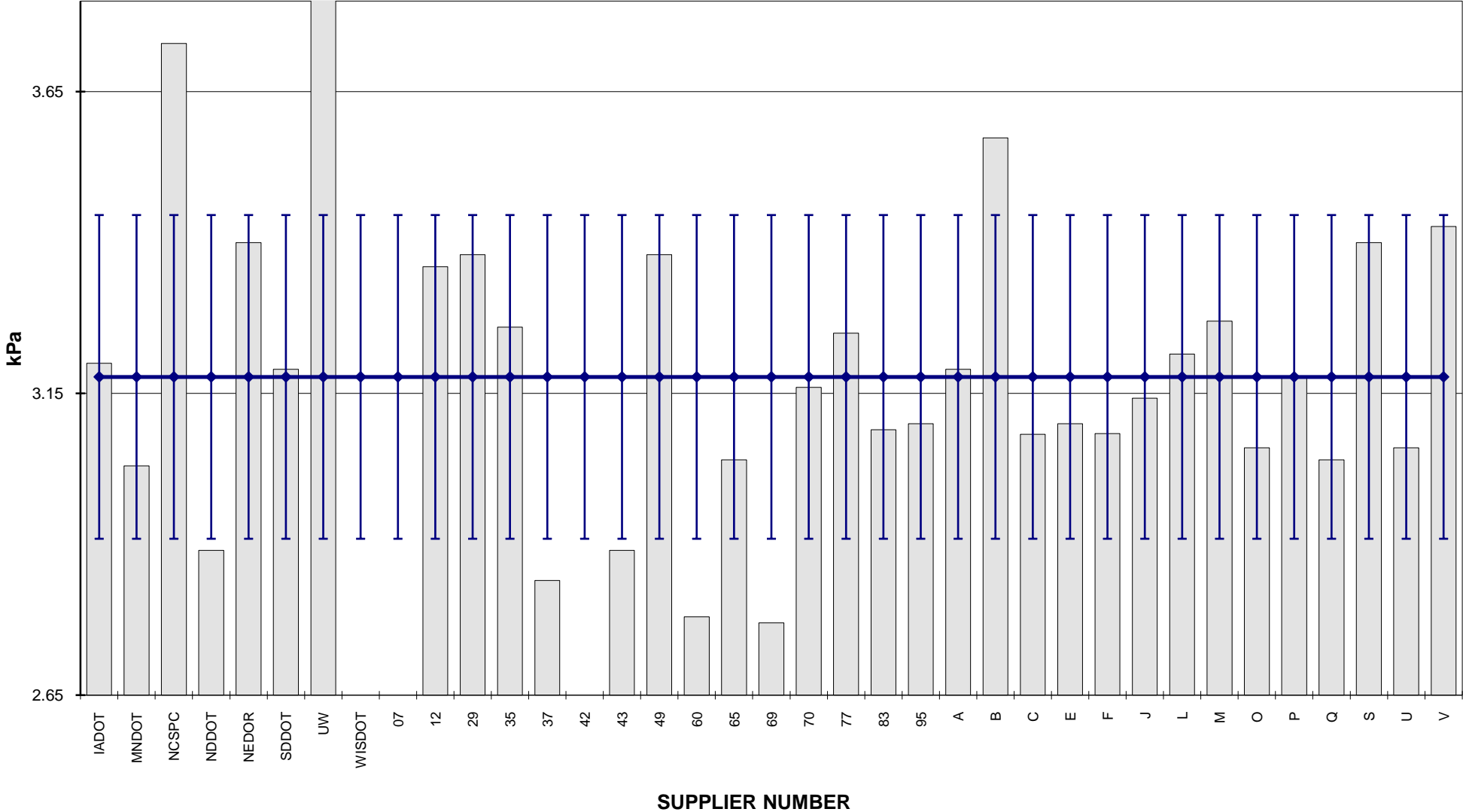
COMBINED STATE BINDER GROUP ROUND ROBIN 2012-1
SUMMARY B
PG 58-28
ROTATIONAL VISCOSITY



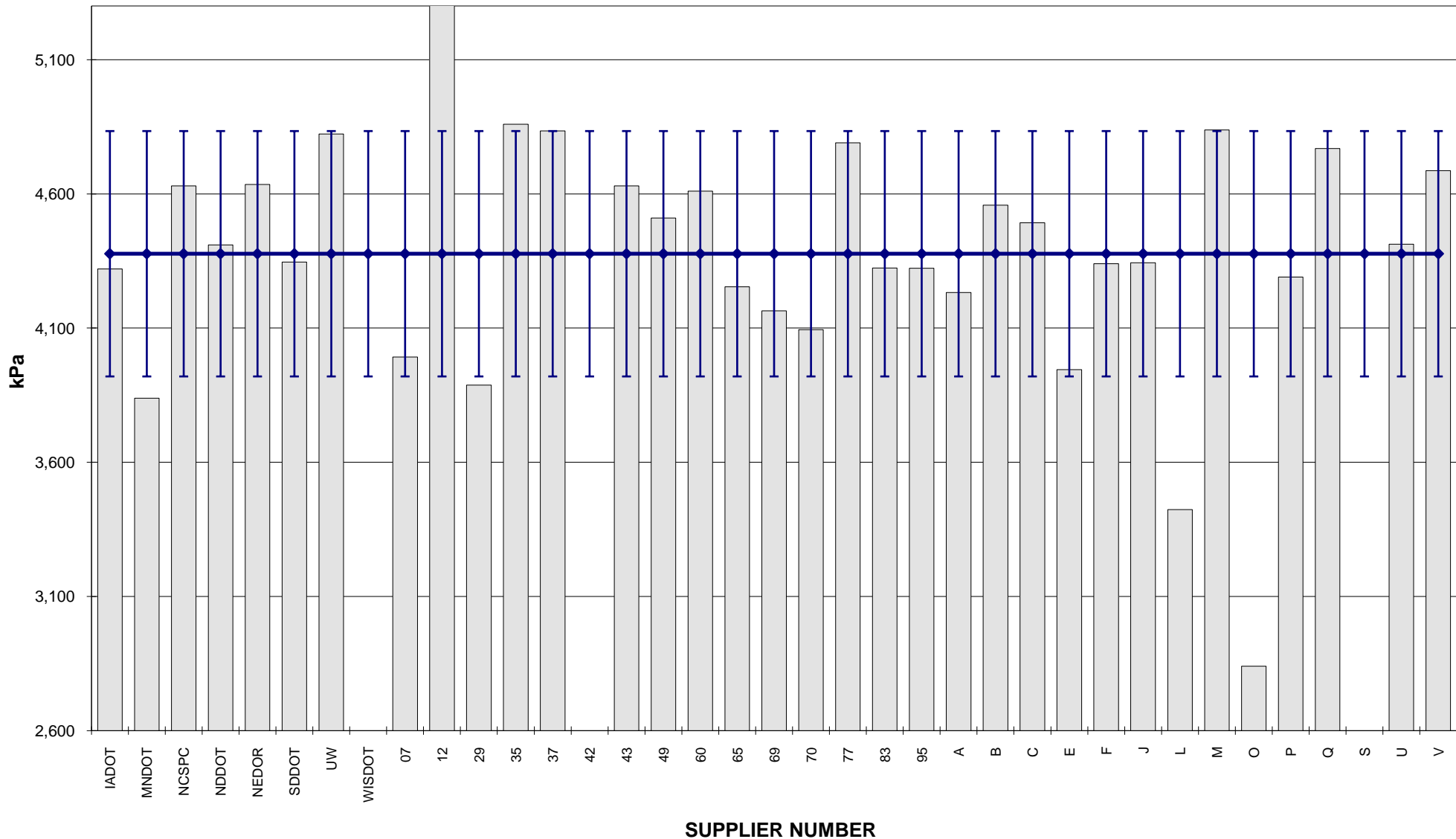
COMBINED STATE BINDER GROUP ROUND ROBIN 2012-1
SUMMARY B
PG 58-28
DSR - ORIGINAL



COMBINED STATE BINDER GROUP ROUND ROBIN 2012-1
SUMMARY B
PG 58-28
DSR - RTFO

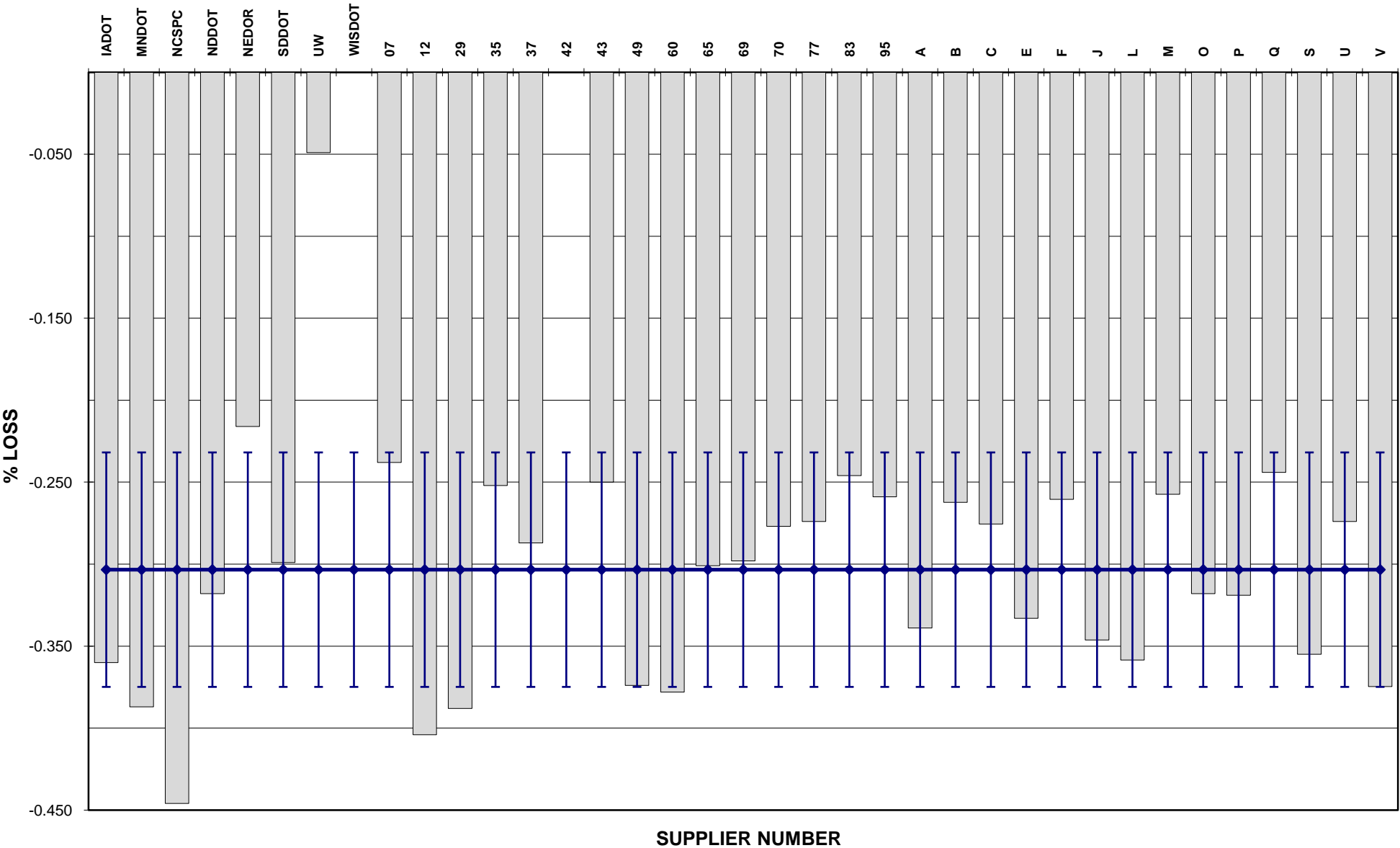


COMBINED STATE BINDER GROUP ROUND ROBIN 2012-1
SUMMARY B
PG 58-28
DSR - PAV

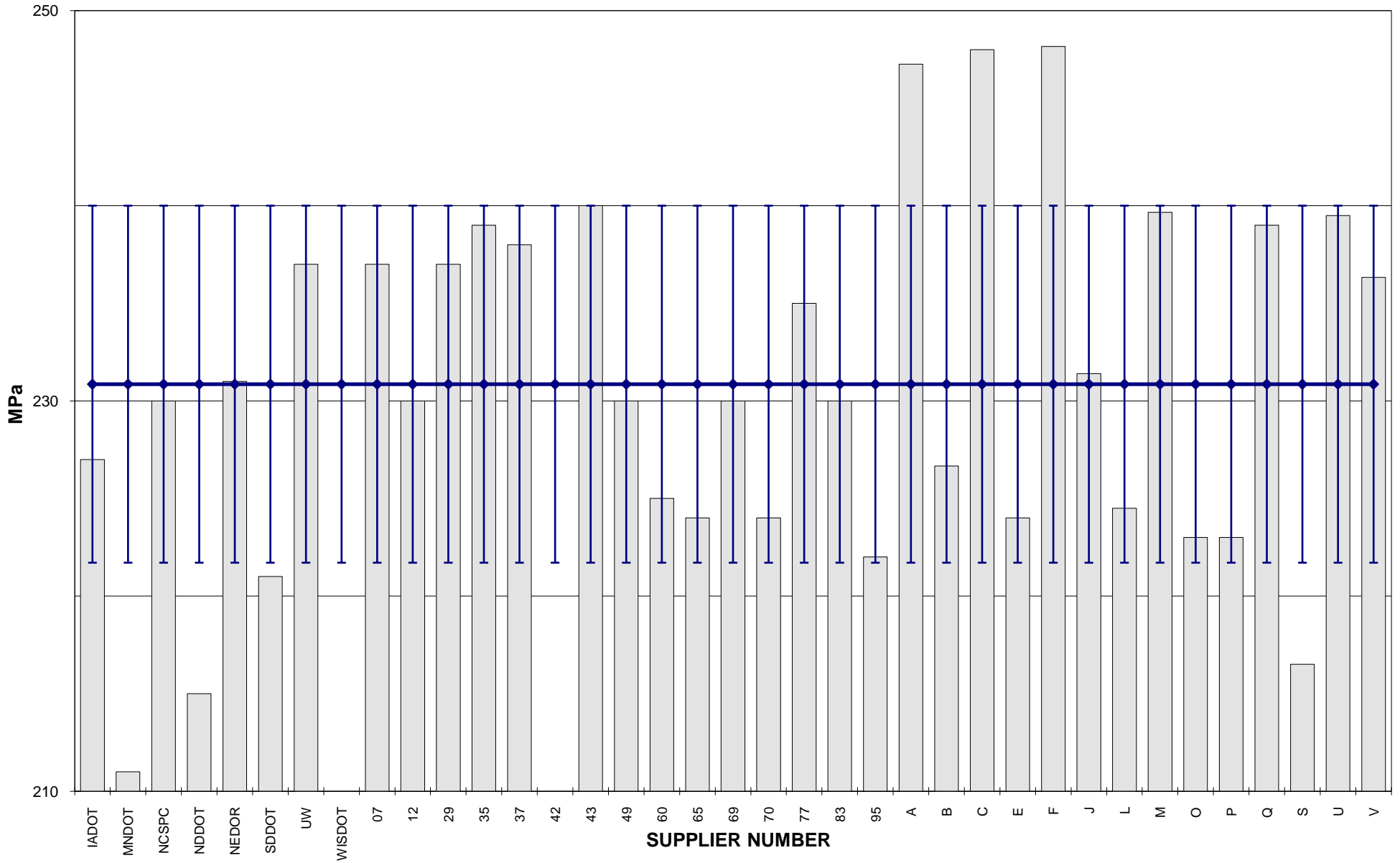


**COMBINED STATE BINDER GROUP ROUND ROBIN 2012-1
SUMMARY B
PG 58-28**

RTFO MASS LOSS



COMBINED STATE BINDER GROUP ROUND ROBIN 2012-1
SUMMARY B
PG 58-28
BBR STIFFNESS



COMBINED STATE BINDER GROUP ROUND ROBIN 2012-1
SUMMARY B
PG 58-28
BBR m-VALUE

