

COMBINED STATE BINDER GROUP ROUND ROBIN 2011-1 SUMMARY B
PG 64-28

Supplier Number	Rotational Viscosity (Pa.s) @135°C	DSR Original (kPa) @64°C	DSR RTFO (kPa) @64°C	DSR PAV (kPa) @22°C	Mass Loss (%) @163°C	BBR S-value (MPa) @-18°C	BBR m-value @-18°C
IADOT	0.560	1.33	3.00	2910	-0.243	230	0.310
MNDOT	0.475	1.33	3.48	3867	-0.316	229	0.303
NCSPC	0.564	1.33	3.08	2260	-0.310	224	0.318
NDDOT	0.540	1.33	3.06	2712	-0.257	224	0.316
NEDOR	0.555	1.40	3.14	3086	-0.202	241	0.312
SDDOT	0.563	1.33	3.20	2832	-0.259	240	0.329
UW	0.812	1.38	3.41	3260	-1.420	262	0.301
WISDOT	0.565	1.33	2.78	2442	-0.285	219	0.307
07	0.544	1.35	2.91	3119	-0.249	234	0.319
12	0.559	1.33	2.88	2841	-0.266	234	0.313
22	0.568	1.35	2.98	3172	-0.269	227	0.309
29	0.580	1.22	2.39	3084	-0.330	224	0.326
35	0.565	1.38	3.19	3000	-0.225	271	0.301
37	0.570	1.30	2.66	2709	-0.244	245	0.308
42	0.555	1.28	3.04	2950	-0.313	232	0.312
43	0.536	1.37	3.12	3020	-0.240	250	0.317
49	0.550	1.32	3.23	2960	-0.262	244	0.314
60	0.545	1.32	2.69	3210	-0.255	238	0.313
65	0.536	1.34	3.13	3209	-0.253	215	0.322
69	0.544	1.32	2.96	3162	-0.243	229	0.315
70	0.555	1.32	2.88	3000	-0.206	247	0.313
77	0.500	1.42	3.40	3270	-0.253	232	0.309
95	0.555	1.37	3.32	3188	-0.230	235	0.312
A	0.529	1.25	3.12	3037	-0.305	244	0.319
B	0.289	1.35	3.27	3361	-0.195	220	0.322
C	0.530	1.30	3.10	2951	-0.258	259	0.304
E	0.548	1.23	2.96	2749	-0.222	233	0.314
F	0.548	1.32	3.20	3,093	-0.244	237	0.313
J	0.573	1.29	3.10	2906	-0.279	229	0.309
L	0.594	1.31	3.11	3571	-0.299	244	0.315
M	0.606	1.35	3.08	3207	-0.230	240	0.313
O	0.565	1.33	3.40	3,028	-0.232	238	0.319
P	0.555	1.39	3.34	2882	-0.239	241	0.327
S	0.619	1.38	3.12	2928	-0.270	238	0.301
T							
U	0.544	1.27	3.25	3116	-0.245	233	0.320
V	0.532	1.31	3.04	3095	-0.299	233	0.313
Average	0.554	1.33	3.08	3,033	-0.290	237	0.314
Std. Dev.	0.0675	0.0448	0.2260	281.77	0.1964	11.77	0.0070
Coef. of Var.	12.199	3.371	7.328	9.290	67.694	4.976	2.238

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A	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
19	0.534	1.26	3.13	3104	-0.358	245	0.317
51	0.526	1.23	3.14	3000	-0.300	241	0.317
97	0.530	1.25	3.07	3005	-0.298	244	0.321
98	0.526	1.25	3.15	3040	-0.263	247	0.322
Average	0.529	1.25	3.12	3,037	-0.305	244	0.319

B	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
01	0.285	1.33	3.37	3511	-0.177	218	0.326
17	0.293	1.37	3.19	3347	-0.203	223	0.324
45	0.290	1.36	3.26	3226	-0.205	218	0.315
Average	0.289	1.35	3.27	3,361	-0.195	220	0.322

C	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
28	0.535	1.32	2.87	2853	-0.256	253	0.302
66	0.528	1.31	3.20	3030	-0.269	258	0.305
90	0.521	1.29	3.16	3041	-0.231	262	0.306
99	0.535	1.27	3.15	2879	-0.277	261	0.304
Average	0.530	1.30	3.10	2951	-0.258	259	0.304

E	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
15	0.558	1.26	2.99	2942	-0.228	232	0.313
89	0.538	1.19	2.93	2556	-0.215	234	0.315
Average	0.548	1.23	2.96	2749	-0.222	233	0.314

F	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
02	0.567	1.43	2.91	3091	-0.321	256	0.315
11	0.553	1.41	3.00	3199	-0.320	257	0.312
34	0.567	1.36	3.34	2860	-0.237	253	0.315
48	0.519	1.41	3.21	2927	-0.234	261	0.314
56	0.553	1.35	3.28	2832	-0.271	247	0.307
62	0.517	1.39	3.34	2922	-0.275	249	0.311
Average	0.546	1.39	3.18	2,972	-0.276	254	0.312

J	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
05	0.566	1.27	3.14	2785	-0.285	230	0.308
08	0.576	1.29	3.01	2775	-0.260	229	0.308
31	0.571	1.30	3.14	2998	-0.295	226	0.311
41	0.576	1.27	3.02	2988	-0.269	225	0.311
44	0.572	1.31	3.16	2964	-0.278	232	0.307
52	0.566	1.29	3.09	2971	-0.275	233	0.310
83	0.581	1.29	3.13	2862	-0.290	227	0.311
Average	0.573	1.29	3.10	2906	-0.279	229	0.309

L	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
25	0.588	1.31	3.09	3571	-0.298	244	0.315
59	0.600	1.30	3.13	3570	-0.300	244	0.315
Average	0.594	1.31	3.11	3571	-0.299	244	0.315

M	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
04	0.613	1.37	3.06	3209	-0.230	244	0.313
47	0.601	1.34	3.12	3239	-0.222	240	0.314
57	0.605	1.33	3.05	3173	-0.238	236	0.312
Average	0.606	1.35	3.08	3207	-0.230	240	0.313

O	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
76	0.570	1.34	3.43	2915	-0.230	235	0.322
85	0.560	1.32	3.36	3141	-0.234	240	0.316
Average	0.565	1.33	3.40	3028	-0.232	238	0.319

P	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
30	0.560	1.38	3.36	3124	-0.227	234	0.329
71	0.550	1.44	3.55	2665	-0.235	248	0.322
73	0.555	1.35	3.11	2856	-0.255	242	0.330
Average	0.555	1.39	3.34	2882	-0.239	241	0.327

S	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
53	0.609	1.39	3.15	2878	-0.290	237	0.302
64	0.629	1.37	3.08	2978	-0.250	239	0.299
Average	0.619	1.38	3.12	2928	-0.270	238	0.301

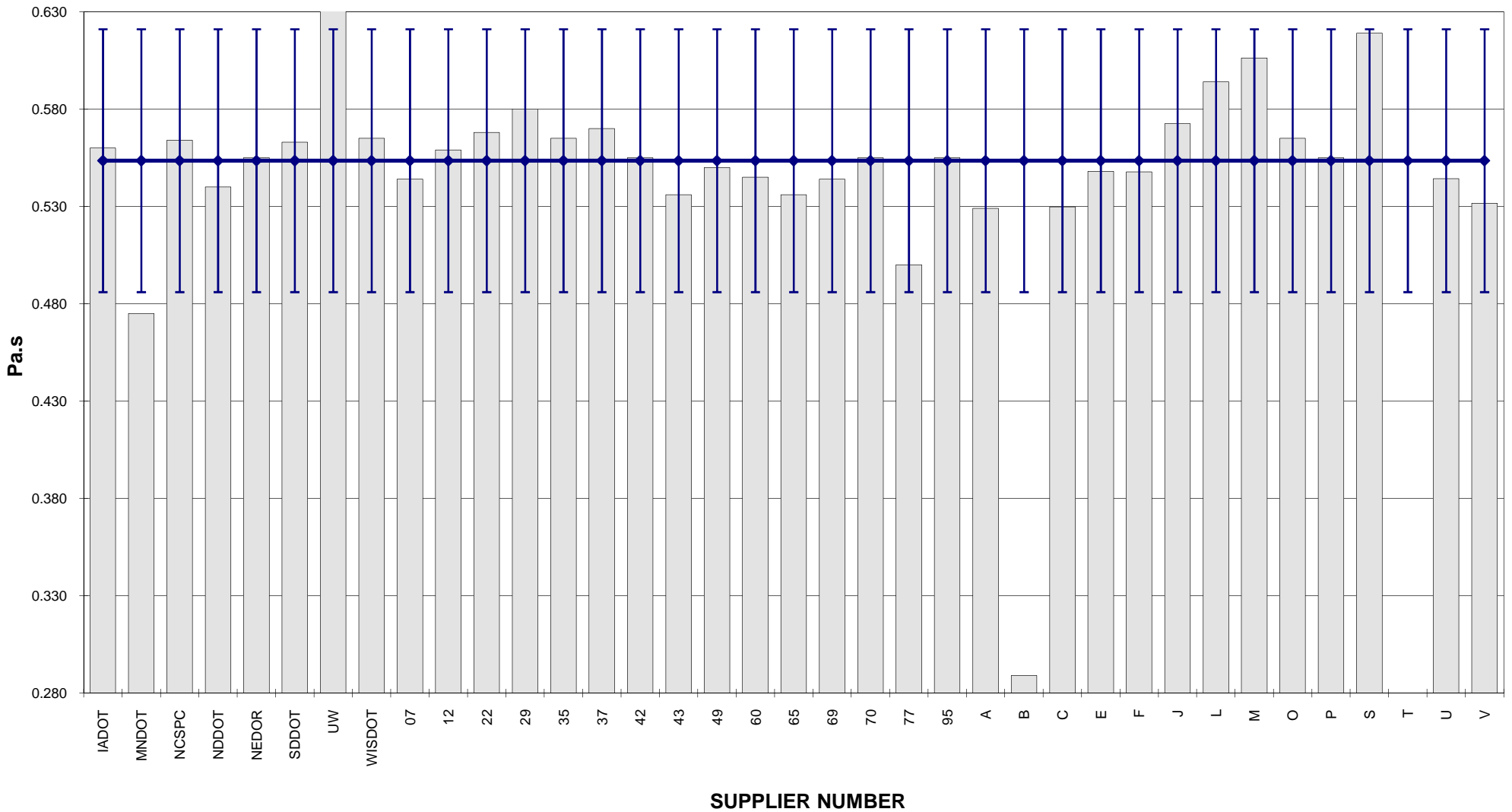
T	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
39							
87							
Average	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

U	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
13	0.55	1.26	3.37	3370	-0.231	234	0.325
24	0.550	1.32	3.22	3010	-0.278	234	0.312
93	0.533	1.23	3.15	2967	-0.227	232	0.323
Average	0.544	1.270	3.247	3115.667	-0.245	233.333	0.320

V	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
58	0.530	1.33	3.03	3190	-0.293	236	0.312
78	0.530	1.30	3.03	2885	-0.296	227	0.313
81	0.535	1.30	3.07	3210	-0.309	237	0.314
Average	0.532	1.31	3.04	3095	-0.299	233	0.313

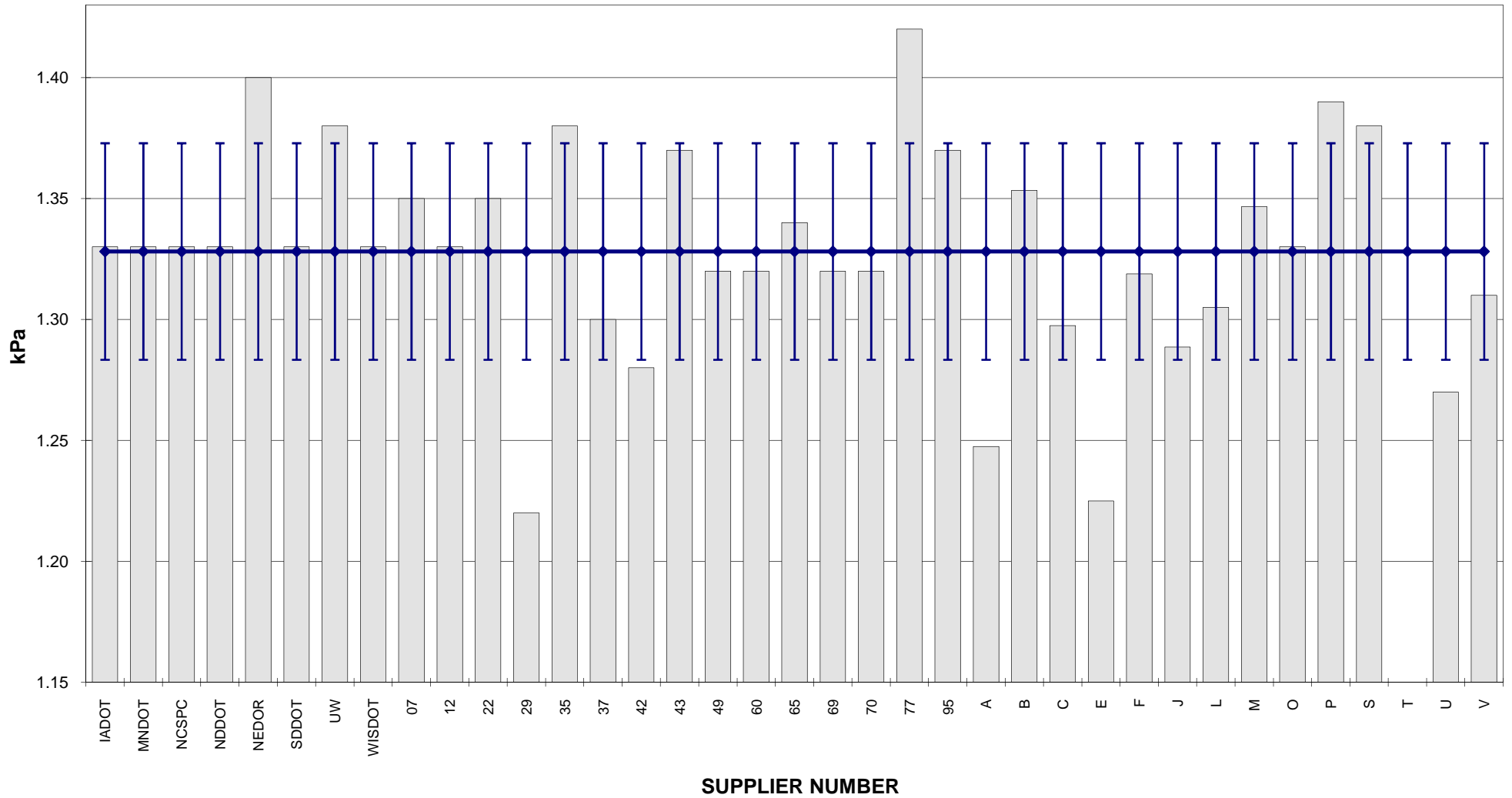
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ROTATIONAL VISCOSITY



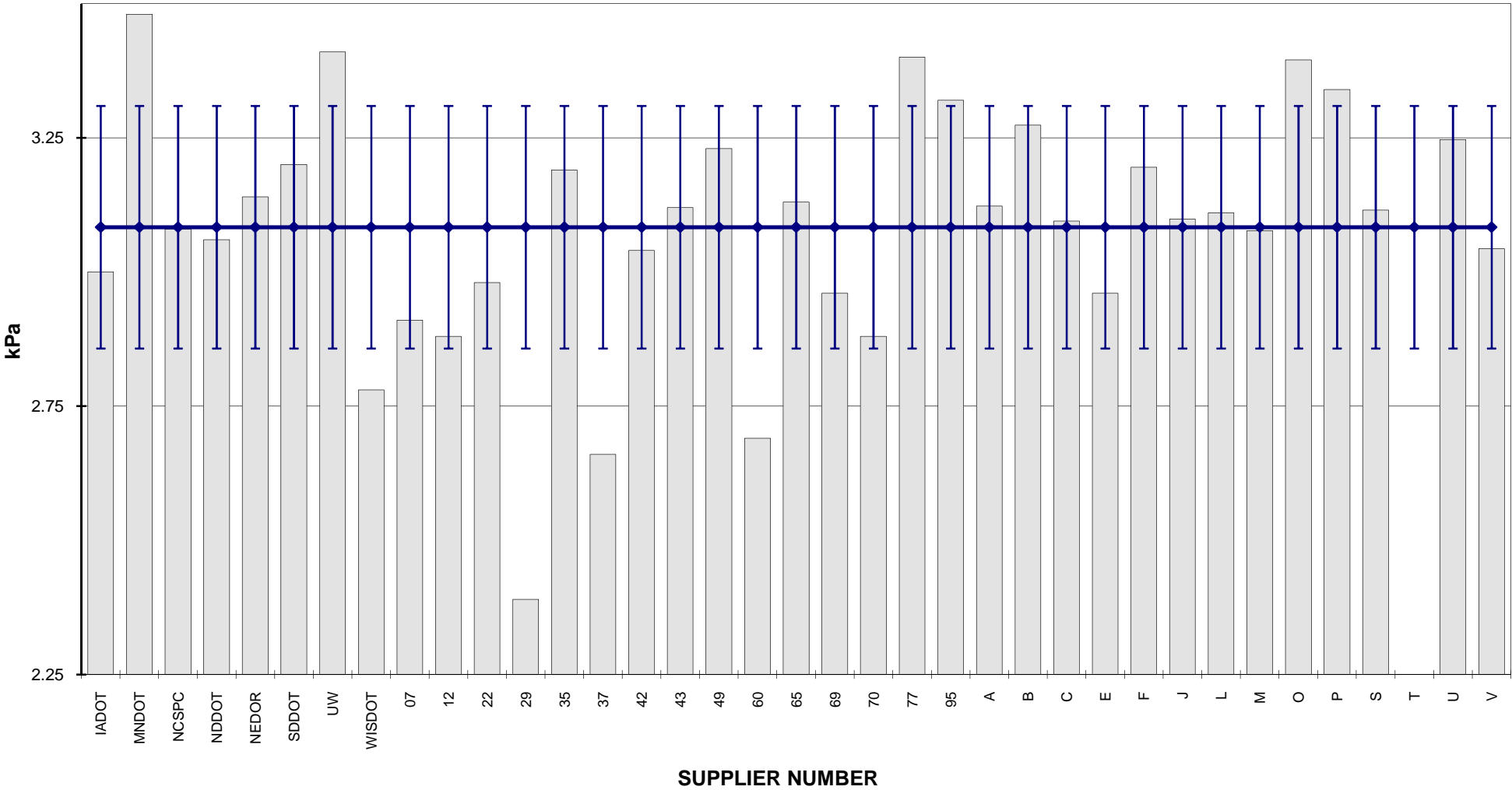
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DSR - ORIGINAL

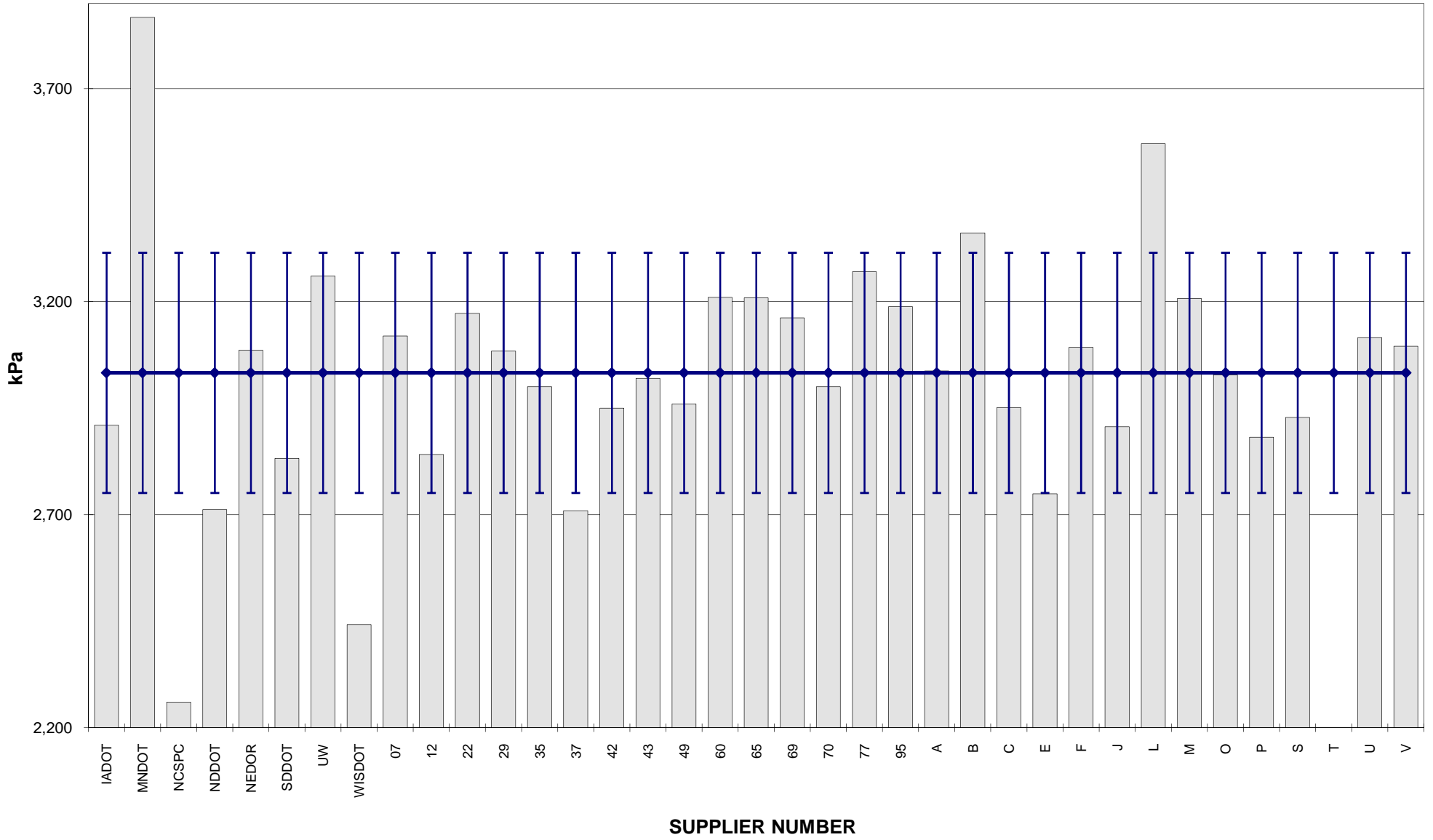


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DSR - RTFO

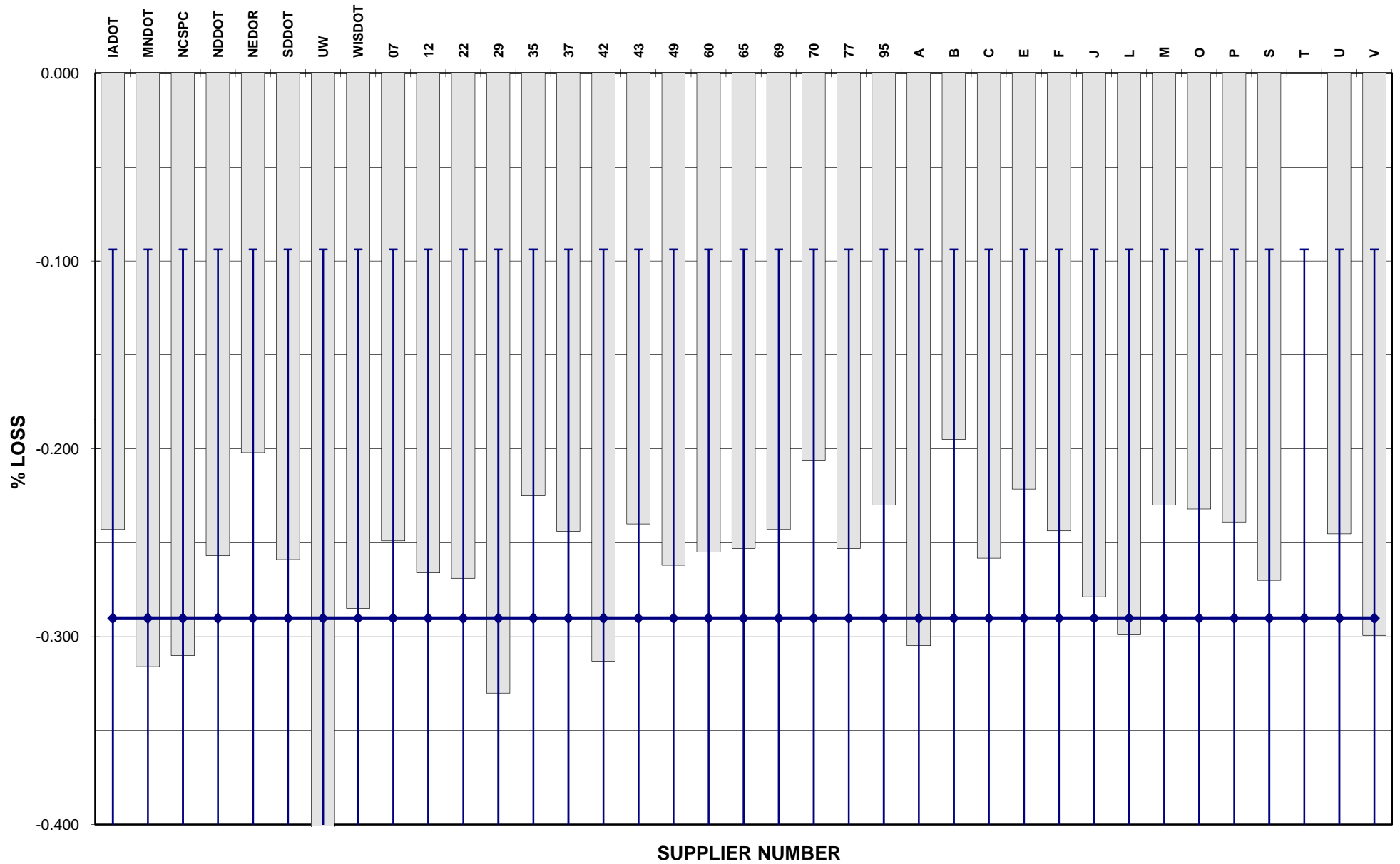


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DSR - PAV

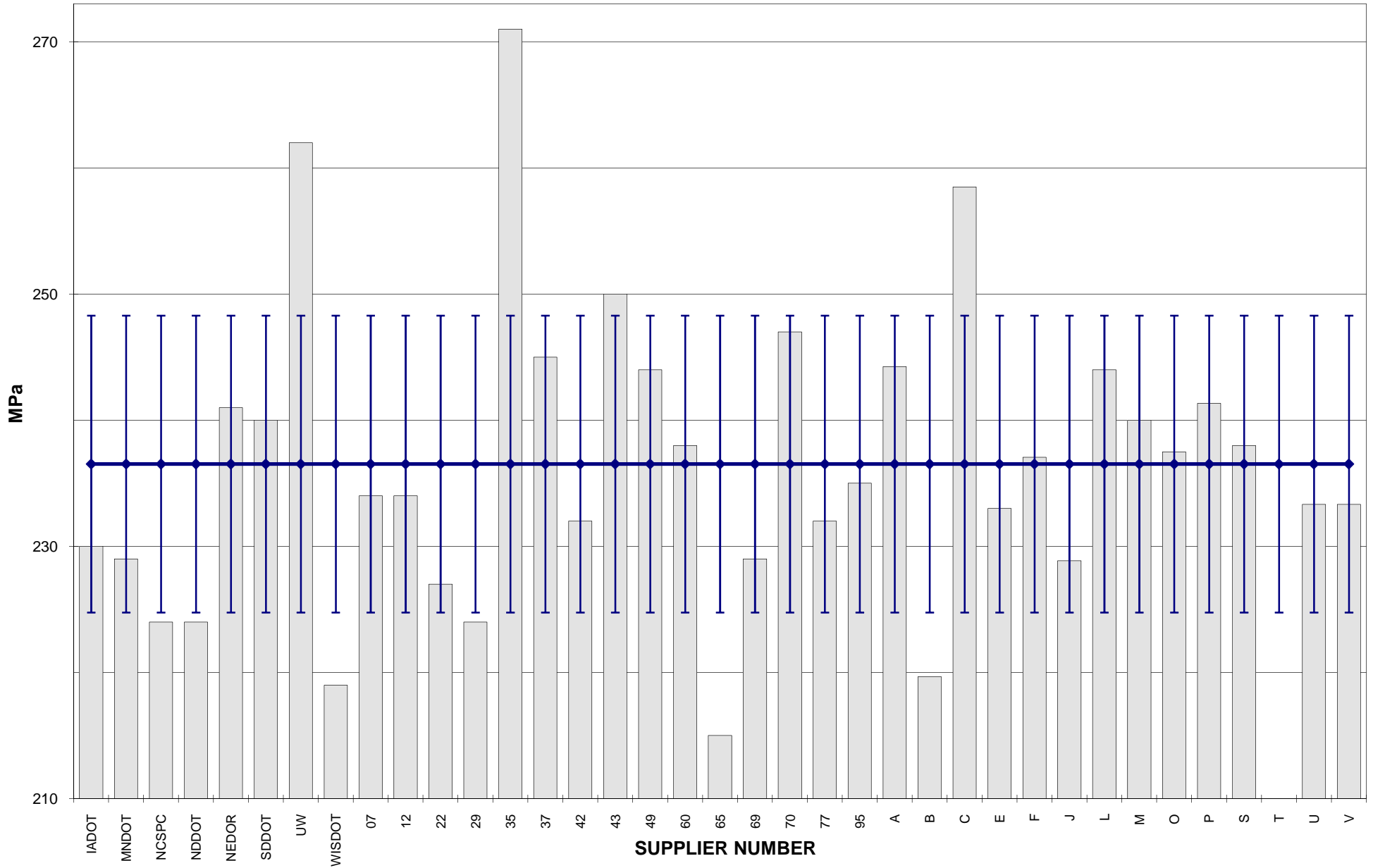


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RTFO MASS LOSS



COMBINED STATE BINDER GROUP ROUND ROBIN 2011-1
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BBR STIFFNESS



COMBINED STATE BINDER GROUP ROUND ROBIN 2011-1
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BBR m-VALUE

