

COMBINED STATE BINDER GROUP ROUND ROBIN 2010-2
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) @25°C	Mass Loss (%) @163°C	BBR S-value (MPa) @-12°C	BBR m-value @-12°C
IADOT	0.588	1.41	3.64	2510	-0.445	190	0.323
MNDOT	0.550	1.41	4.28	2341	-0.591	176	0.326
NCSPC	0.580	1.38	3.90	2360	-0.641	210	0.308
NDDOT	0.543	1.39	3.57	2314	-0.534	195	0.326
NEDOR	0.562	1.46	4.03	2512	-0.462	198	0.317
SDDOT	0.600	1.42	4.14	2314	-0.547	202	0.328
UW	0.631	1.42	4.12	2920	-0.180	193	0.312
WISDOT	0.597	1.31	3.54	2552	-0.474	155	0.318
07	0.561	1.36	3.44	2744	-0.325	204	0.324
12	0.582	1.41	3.42	2708	-0.544	200	0.320
29	0.557	1.34	3.77	2779	-0.527	210	0.327
35	0.551	1.42	4.12	1580	-0.498	171	0.333
37	0.598	1.29	2.99	2729	-0.501	223	0.305
42	0.597	1.39	3.90	1862	-0.614	189	0.313
43	0.542	1.39	3.78	2030	-0.504	200	0.344
49	0.570	1.36	3.61	2270	-0.499	197	0.314
60	0.563	1.40	3.33	2600	-0.598	205	0.324
65	0.545	1.38	3.80	2143	-0.508	173	0.332
69	0.568	1.44	3.56	2553	-0.461	196	0.326
70	0.560	1.42	3.67	2583	-0.447	205	0.324
77	0.530	1.40	3.88	2560	-0.400	203	0.322
95	0.585	1.34	3.82	2278	-0.422	216	0.317
A	0.547	1.43	3.75	2484	-0.552	203	0.331
B	0.547	1.38	4.07	2466	-0.494	185	0.325
C	0.560	1.42	3.70	2617	-0.477	207	0.318
E	0.613	1.39	3.97	2170	-0.519	181	0.338
F	0.587	1.40	3.70	2,560	-0.495	211	0.325
J	0.591	1.39	3.55	2534	-0.410	181	0.321
L	0.615	1.31	4.19	2986	-0.495	209	0.327
M	0.627	1.30	3.52	2572	-0.485	194	0.335
O	0.580	1.37	3.87	2,468	-0.482	219	0.313
P	0.567	1.52	3.84	2087	-0.419	189	0.335
T	0.593	1.34	3.97	2230	-0.494	204	0.328
U	0.597	1.40	3.79	2345	-0.459	180	0.327
V	0.570	1.41	3.84	2292	-0.482	196	0.333
Average	0.576	1.39	3.77	2,430	-0.485	196	0.324
Std. Dev.	0.0253	0.0468	0.2691	285.18	0.0820	14.57	0.0085
Coef. of Var.	4.387	3.372	7.132	11.736	16.906	7.427	2.625

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	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
A							
19	0.542	1.42	3.74	2522	-0.515	209	0.328
51	0.562	1.47	3.82	2495	-0.569	200	0.330
97	0.546	1.43	3.81	2396	-0.547	199	0.333
98	0.538	1.40	3.64	2522	-0.578	205	0.331
Average	0.547	1.43	3.75	2,484	-0.552	203	0.331

B							
01	0.562	1.36	3.94	2392	-0.466	186	0.325
17	0.560	1.36	4.11	2479	-0.480	186	0.327
45	0.520	1.42	4.16	2526	-0.536	184	0.322
Average	0.547	1.38	4.07	2,466	-0.494	185	0.325

C							
28	0.563	1.41	3.45	2596	-0.495	204	0.318
66	0.550	1.42	3.70	2431	-0.489	212	0.320
90	0.565	1.41	3.83	2915	-0.486	211	0.320
99	0.563	1.44	3.80	2527	-0.439	202	0.313
Average	0.560	1.42	3.70	2617	-0.477	207	0.318

E							
15	0.600	1.39	3.95	2106	-0.525	183	0.345
89	0.625	1.39	3.98	2234	-0.513	179	0.331
Average	0.613	1.39	3.97	2170	-0.519	181	0.338

F							
02	0.608	1.42	3.51	2658	-0.472	209	0.324
11	0.600	1.44	3.88	2656	-0.457	210	0.325
34	0.565	1.37	3.81	2278	-0.476	214	0.326
48	0.568	1.40	3.66	2320	-0.495	213	0.329
56	0.585	1.38	3.69	2852	-0.537	201	0.317
62	0.593	1.40	3.67	2598	-0.532	218	0.326
Average	0.587	1.40	3.70	2,560	-0.495	211	0.325

J							
05	0.608	1.36	3.46	2406	-0.470	192	0.316
08	0.611	1.43	3.59	2371	-0.362	184	0.319
31	0.611	1.48	3.44	2560	-0.458	182	0.317
41	0.614	1.34	3.50	2083	-0.360	177	0.323
44	0.610	1.36	3.42	2435	-0.370	182	0.320
52	0.477	1.39	3.86	3648	-0.486	161	0.331
83	0.604	1.36	3.57	2237	-0.366	188	0.321
Average	0.591	1.39	3.55	2534	-0.410	181	0.321

L							
25	0.613	1.31	4.18	3038	-0.526	211	0.326
59	0.617	1.31	4.19	2934	-0.463	207	0.327
Average	0.615	1.31	4.19	2986	-0.495	209	0.327

M							
04	0.618	1.29	3.50	2031	-0.500	194	0.335
47	0.640	1.29	3.70	3696	-0.471	194	0.334
57	0.623	1.31	3.36	1990	-0.483	193	0.335
Average	0.627	1.30	3.52	2572	-0.485	194	0.335

O							
76	0.575	1.35	3.92	2448	-0.475	211	0.311
85	0.585	1.38	3.82	2488	-0.488	226	0.315
Average	0.580	1.37	3.87	2468	-0.482	219	0.313

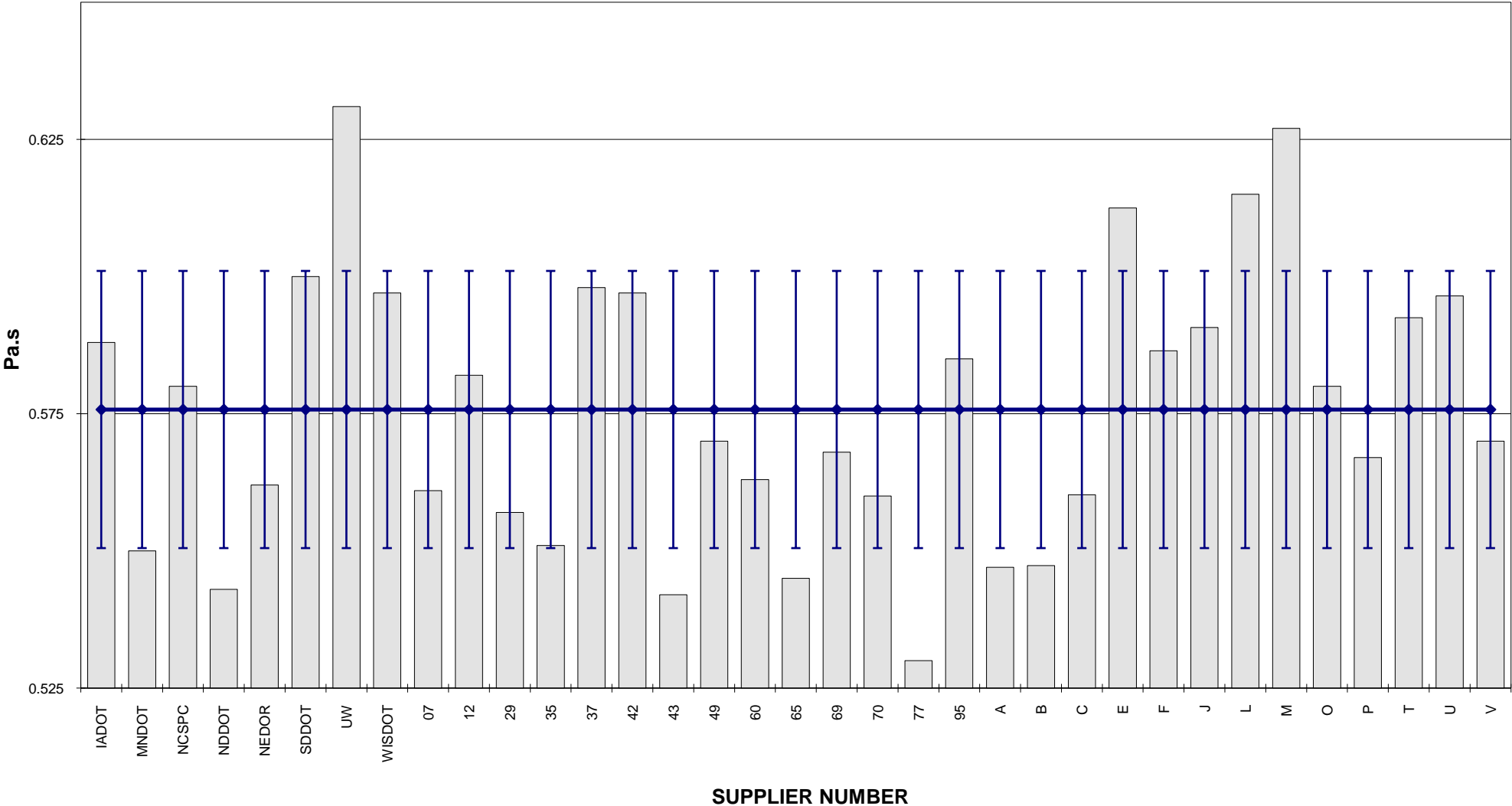
P							
30	0.563	1.60	4.21	1822	-0.496	196	0.334
71	0.560	1.47	3.79	2375	-0.464	185	0.334
73	0.578	1.49	3.52	2063	-0.296	186	0.336
Average	0.567	1.52	3.84	2087	-0.419	189	0.335

T							
39	0.592	1.33	3.95	2154	-0.433	206	0.328
87	0.593	1.34	3.98	2306	-0.554	201	0.328
Average	0.593	1.34	3.97	2230	-0.494	204	0.328

U							
24	0.595	1.37	3.98	2435	-0.445	172	0.329
93	0.598	1.42	3.59	2255	-0.473	187	0.324
Average	0.597	1.40	3.79	2345	-0.459	180	0.327

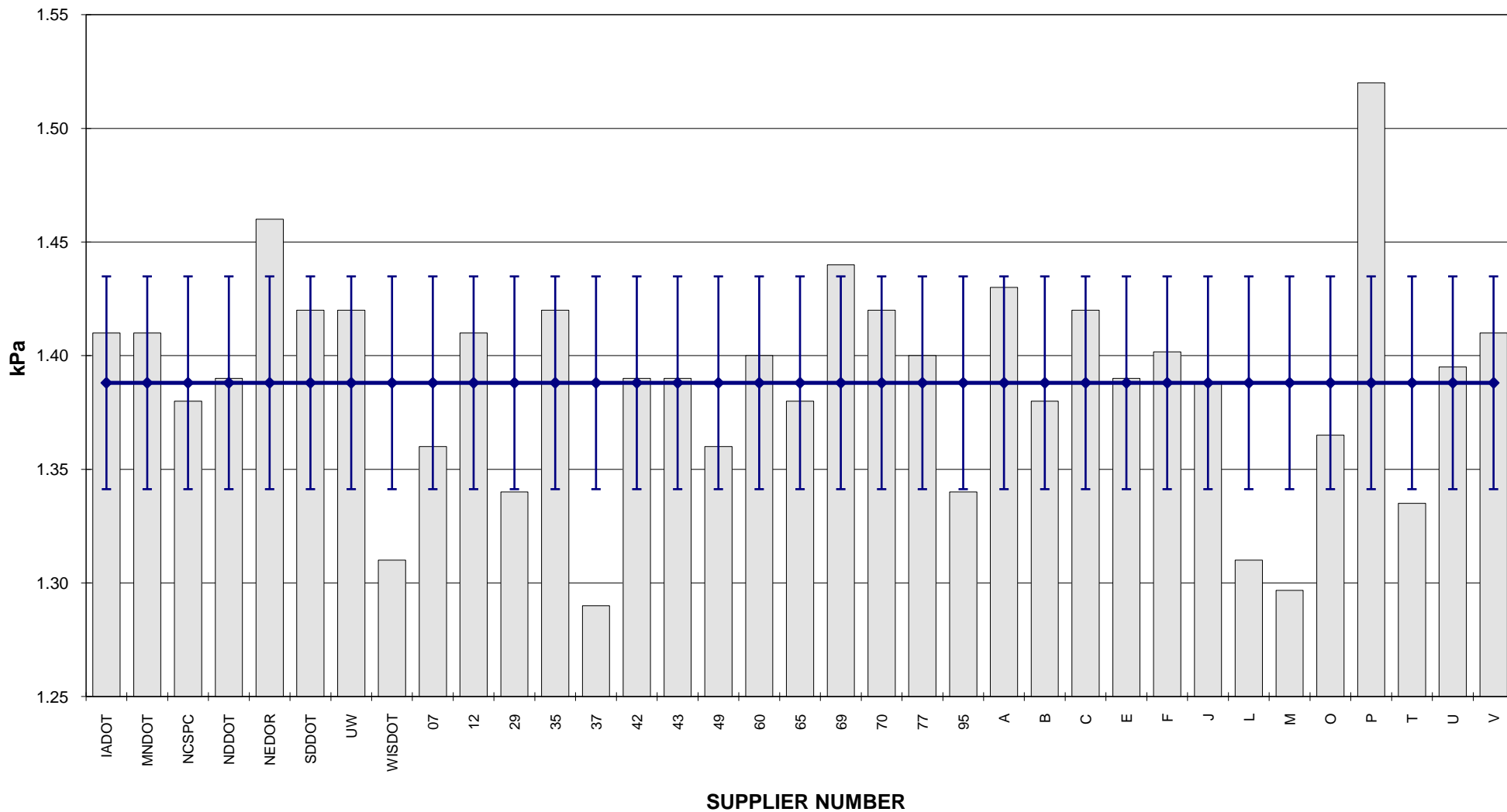
V							
58	0.562	1.41	3.75	2240	-0.480	195	0.333
78	0.573	1.41	3.93	2310	-0.473	199	0.331
81	0.575	1.41	3.84	2325	-0.494	194	0.334
Average	0.570	1.41	3.84	2292	-0.482	196	0.333

ROTATIONAL VISCOSITY



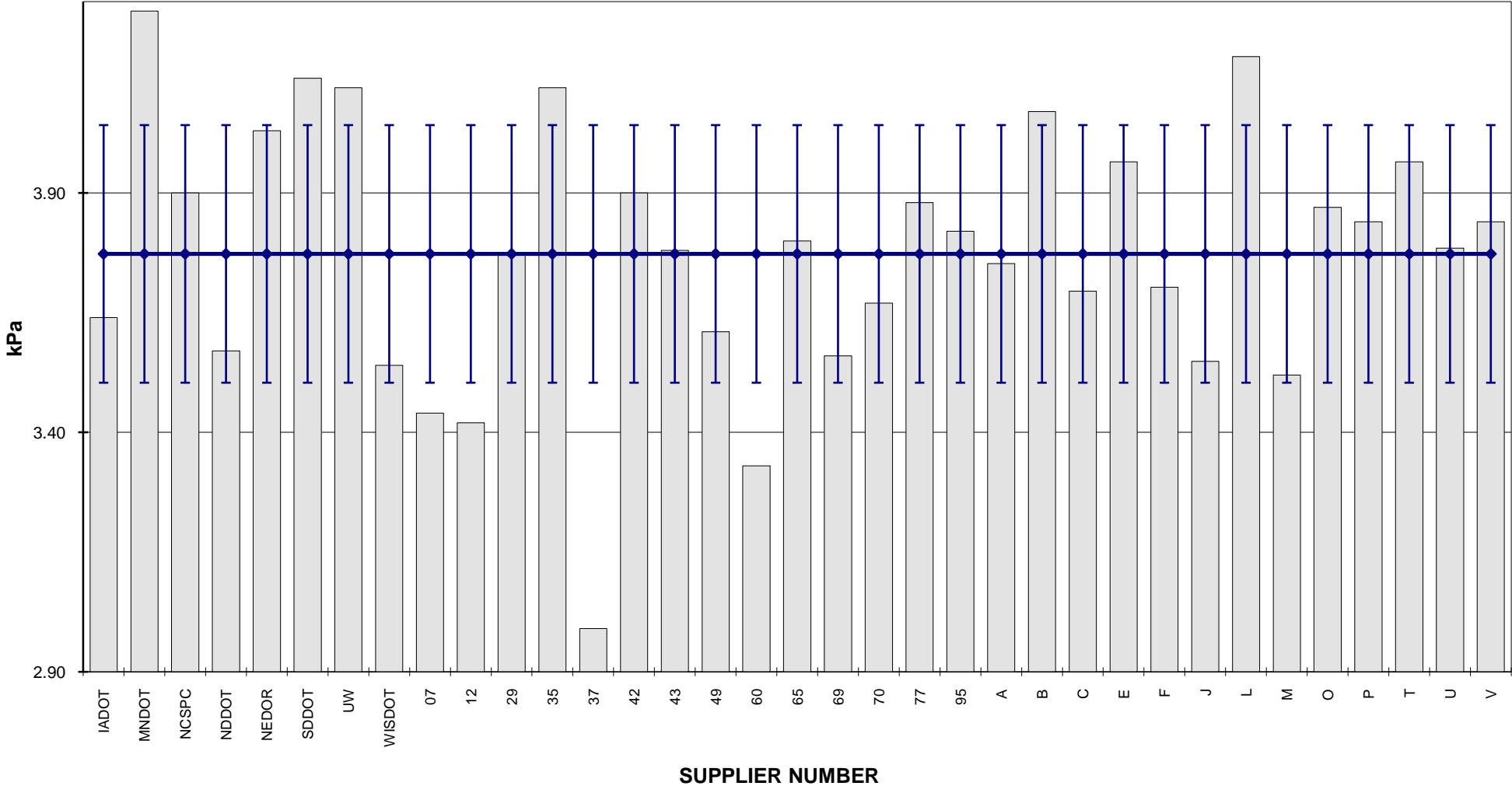
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DSR - ORIGINAL

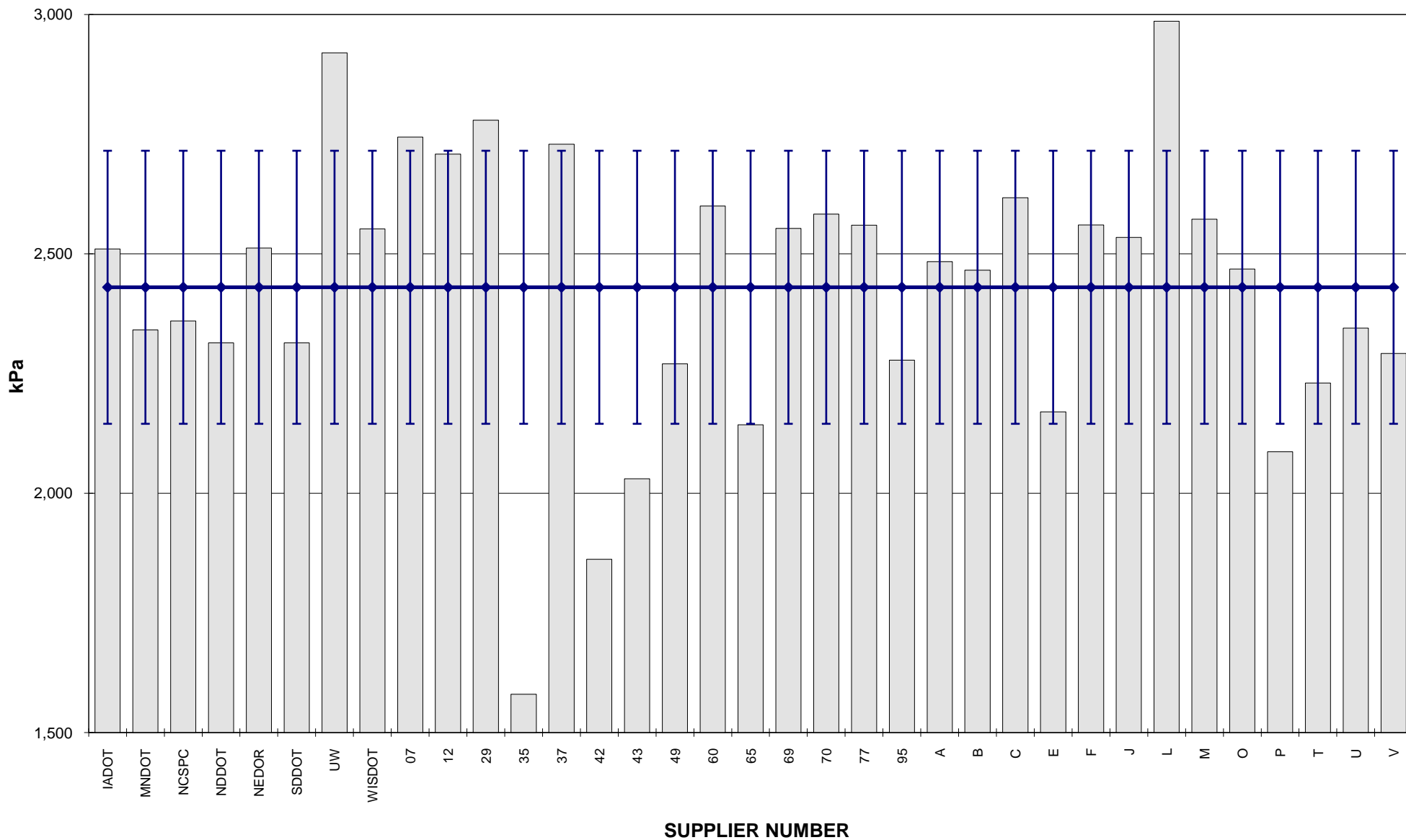


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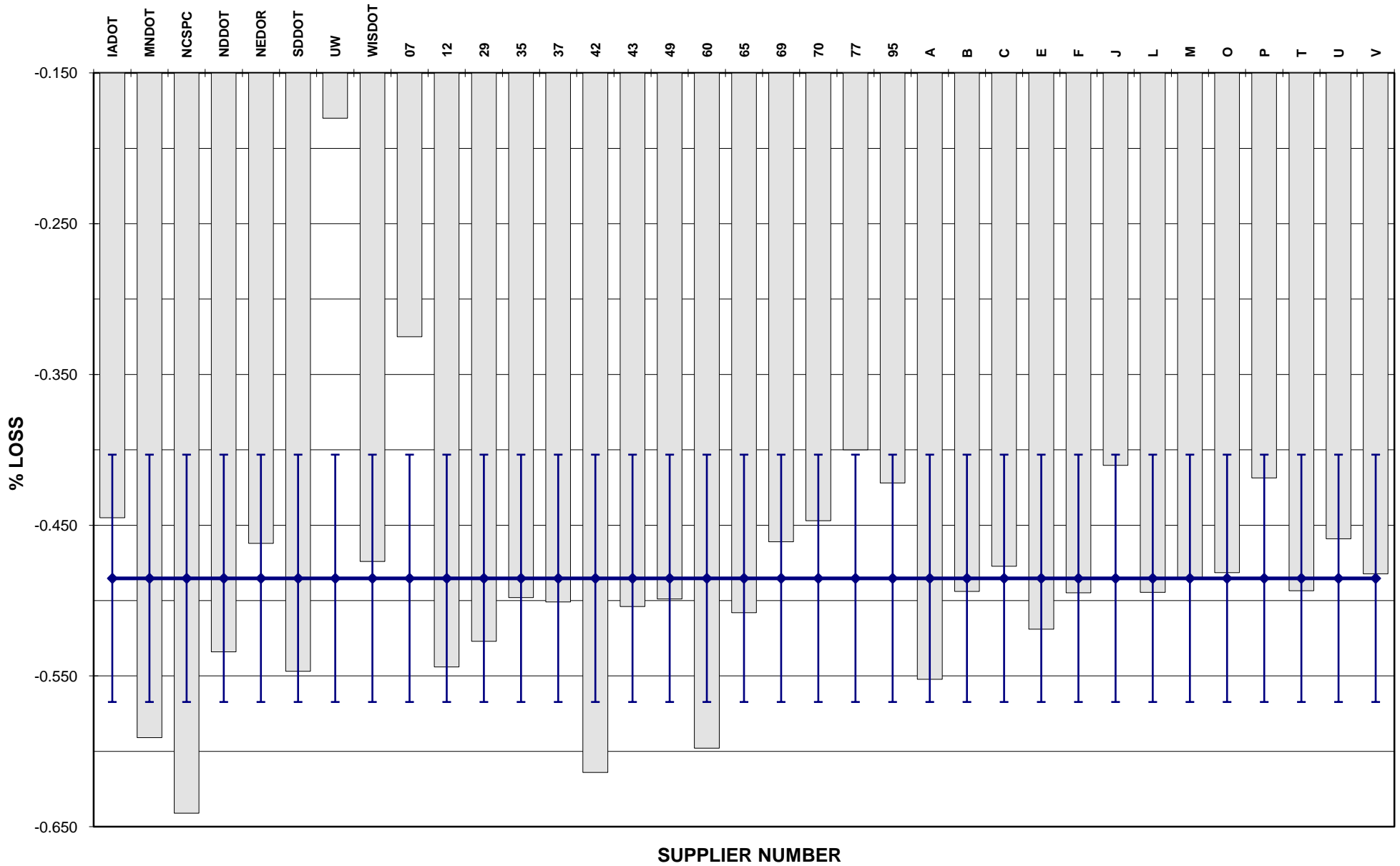
DSR - RTFO



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DSR - PAV



RTFO MASS LOSS

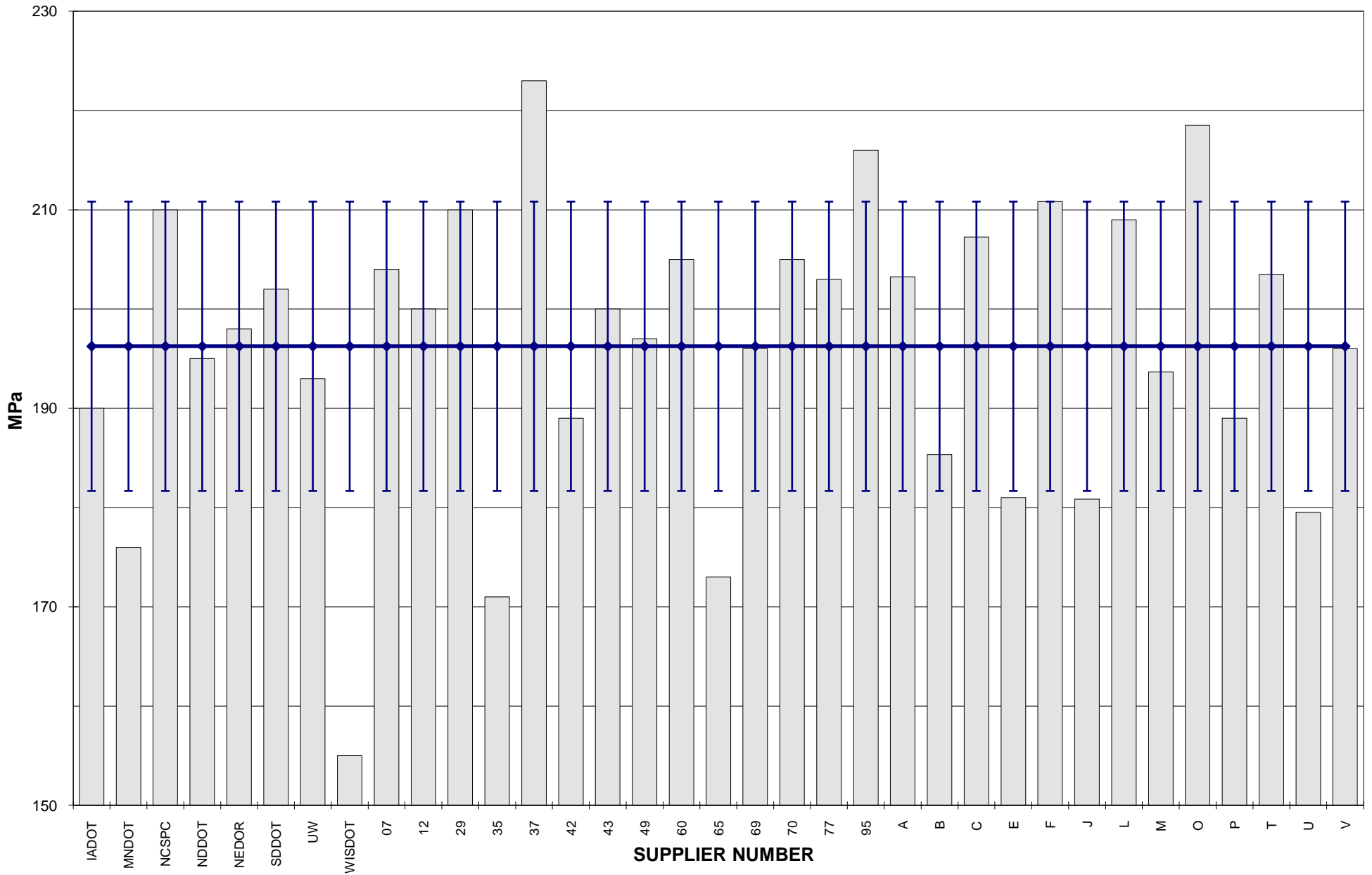


COMBINED STATE BINDER GROUP ROUND ROBIN 2010-2

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BBR STIFFNESS



COMBINED STATE BINDER GROUP ROUND ROBIN 2010-2

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BBR m-VALUE

