

**COMBINED STATE BINDER GROUP ROUND ROBIN 2008-1 SUMMARY B**

**PG 64-22**

<b>Supplier Number</b>	<b>Rotational Viscosity (Pa.s) @135°C</b>	<b>DSR Original (kPa) @64°C</b>	<b>DSR RTFO (kPa) @64°C</b>	<b>DSR PAV (kPa) @25°C</b>	<b>Mass Loss (%) @163°C</b>	<b>BBR S-value (MPa) @-12°C</b>	<b>BBR m-value @-12°C</b>
IADOT	0.398	1.37	3.36	3965	-0.320	217	0.321
MNDOT	0.400	1.24	3.43	4550	-0.311	178	0.335
NCSPC	0.399	1.24	2.75	3794	-0.275	191	0.323
NDDOT	0.400	1.37	3.21	4087	-0.358	205	0.328
NEDOR	0.442	1.64	3.82	4663	-0.275	236	0.317
SDDOT	0.421	1.27	3.45	4027	-0.307	211	0.337
UW	0.487	1.21	3.48	4580	-0.764		
WISDOT	0.427	1.40	3.18	4320	-0.336	187	0.322
07	0.416	1.40	3.34	4517	-0.357	200	0.333
12	0.415	1.42	3.55	4588	-0.402	200	0.330
22	0.396	1.43	3.28	3930	-0.920	201	0.328
24	0.412	1.32	3.58	4020	-0.310	200	0.339
29	0.428	1.33	3.46	4685	-0.385	202	0.329
35	0.413	1.37	3.58	2294	-0.342	216	0.332
37	0.423	1.19	2.87	4760	-0.320	207	0.326
42	0.412	1.34	3.41	3890	-0.283	203	0.334
43	0.392	1.38	3.53	4374	-0.316	220	0.330
49	0.408	1.32	3.41	4160	-0.336	214	0.333
65	0.413	1.45	3.44	4144	-0.371	185	0.329
69	0.423	1.38	3.11	5423	-0.346	208	0.328
70	0.410	1.37	3.29	4563	-0.335	201	0.325
77	0.401	1.34	3.55	4810	-0.401	203	0.325
95	0.388	1.30	3.65	4212	-0.346	214	0.331
A	0.398	1.35	3.47	4125	-0.360	209	0.334
B	0.399	1.35	3.93	3960	-0.292	208	0.330
C	0.410	1.33	3.54	4375	-0.355	204	0.331
E	0.467	1.35	3.58	4019	-0.354	201	0.340
F	0.404	1.34	3.34	4021	-0.351	210	0.335
J	0.423	1.29	3.41	4323	-0.292	189	0.333
L	0.432	1.27	3.43	4748	-0.366	210	0.326
M	0.440	1.30	3.22	4080	-0.454	206	0.331
O	0.386	1.28	3.68	4362	-0.354	209	0.331
P	0.401	1.26	3.42	4076	-0.338	206	0.336
S	0.438	1.24	2.67	4469	-0.402	196	0.334
T	0.395	1.30	3.49	4070	-0.305	201	0.331
U	0.416	1.35	3.66	4050	-0.324	199	0.345
V	0.408	1.32	3.50	4342	-0.395	204	0.333
<b>Average</b>	0.415	1.34	3.41	4,253	-0.369	204	0.331
<b>Std. Dev.</b>	0.0208	0.0795	0.2560	470.91	0.1225	10.59	0.0055
<b>Coef. of Var.</b>	5.029	5.957	7.514	11.071	33.177	5.187	1.671

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A	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
19	0.396	1.37	3.44	4120	-0.374	205	0.335
51	0.396	1.35	3.53	3970	-0.374	210	0.330
97	0.400	1.31	3.42	4100	-0.331	207	0.335
98	0.400	1.37	3.48	4310	-0.362	215	0.334
Average	0.398	1.35	3.47	4,125	-0.360	209	0.334

B	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
01	0.400	1.33	3.89	3880	-0.292	210	0.328
17	0.397	1.35	3.93	3926	-0.281	194	0.339
45	0.400	1.37	3.98	4074	-0.304	221	0.323
Average	0.399	1.35	3.93	3,960	-0.292	208	0.330

C	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
21	0.410	1.31	3.47	4299	-0.345	202	0.331
28	0.414	1.35	3.44	4326	-0.348	202	0.333
66	0.412	1.33	3.60	4463	-0.363	208	0.327
90	0.409	1.34	3.64	4402	-0.355	200	0.334
99	0.405	1.32	3.55	4384	-0.362	206	0.331
Average	0.410	1.33	3.54	4,375	-0.355	204	0.331

E	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
15	0.465	1.37	3.60	4089	-0.359	201	0.341
89	0.468	1.33	3.55	3949	-0.349	200	0.339
Average	0.467	1.35	3.58	4,019	-0.354	201	0.340

F	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
02	0.407	1.34	3.47	4115	-0.336	213	0.326
11	0.402	1.34	3.64	3508	-0.352	212	0.338
34	0.405	1.37	3.52	3754	-0.364	214	0.335
48	0.402	1.31	2.96	4118	-0.347	210	0.336
56	0.405	1.33	3.28	4079	-0.352	217	0.329
62	0.405	1.32	3.19	4551	-0.353	196	0.344
Average	0.404	1.34	3.34	4,021	-0.351	210	0.335

J	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
05	0.421	1.32	3.61	4497	-0.308	189	0.335
08	0.424	1.31	3.40	4271	-0.295	191	0.334
31	0.422	1.27	3.37	4384	-0.308	187	0.335
41	0.423	1.31	3.46	4554	-0.277	189	0.331
44	0.424	1.31	3.51	4270	-0.284	191	0.330
52	0.425	1.27	3.32	3890	-0.281	186	0.332
74	0.422	1.27	3.23	4395	-0.291	188	0.333
Average	0.423	1.29	3.41	4,323	-0.292	189	0.333

L	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
25	0.431	1.27	3.44	4790	-0.358	210	0.328
59	0.433	1.27	3.41	4705	-0.374	209	0.324
Average	0.432	1.27	3.43	4,748	-0.366	210	0.326

M	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
04	0.445	1.26	3.27	4397	-0.454	207	0.332
47	0.436	1.31	3.15	4012	-0.452	207	0.331
57	0.440	1.33	3.25	3832	-0.457	205	0.329
Average	0.440	1.30	3.22	4,080	-0.454	206	0.331

O	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
76	0.363	1.21	3.76	4432	-0.311	212	0.328
85	0.408	1.34	3.59	4292	-0.396	205	0.333
Average	0.386	1.28	3.68	4,362	-0.354	209	0.331

P	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
30	0.403	1.21	3.13	4076	-0.338	195	0.344
71	0.400	1.29	3.35	4375	-0.337	200	0.339
73	0.400	1.29	3.77	3777	-0.338	224	0.326
Average	0.401	1.26	3.42	4,076	-0.338	206	0.336

S	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
53	0.438	1.26	2.65	4408	-0.400	193	0.333
64	0.437	1.22	2.68	4529	-0.404	199	0.334
Average	0.438	1.24	2.67	4,469	-0.402	196	0.334

T	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
39	0.400	1.31	3.47	4041	-0.291	200	0.331
87	0.390	1.29	3.51	4098	-0.319	202	0.330
Average	0.395	1.30	3.49	4,070	-0.305	201	0.331

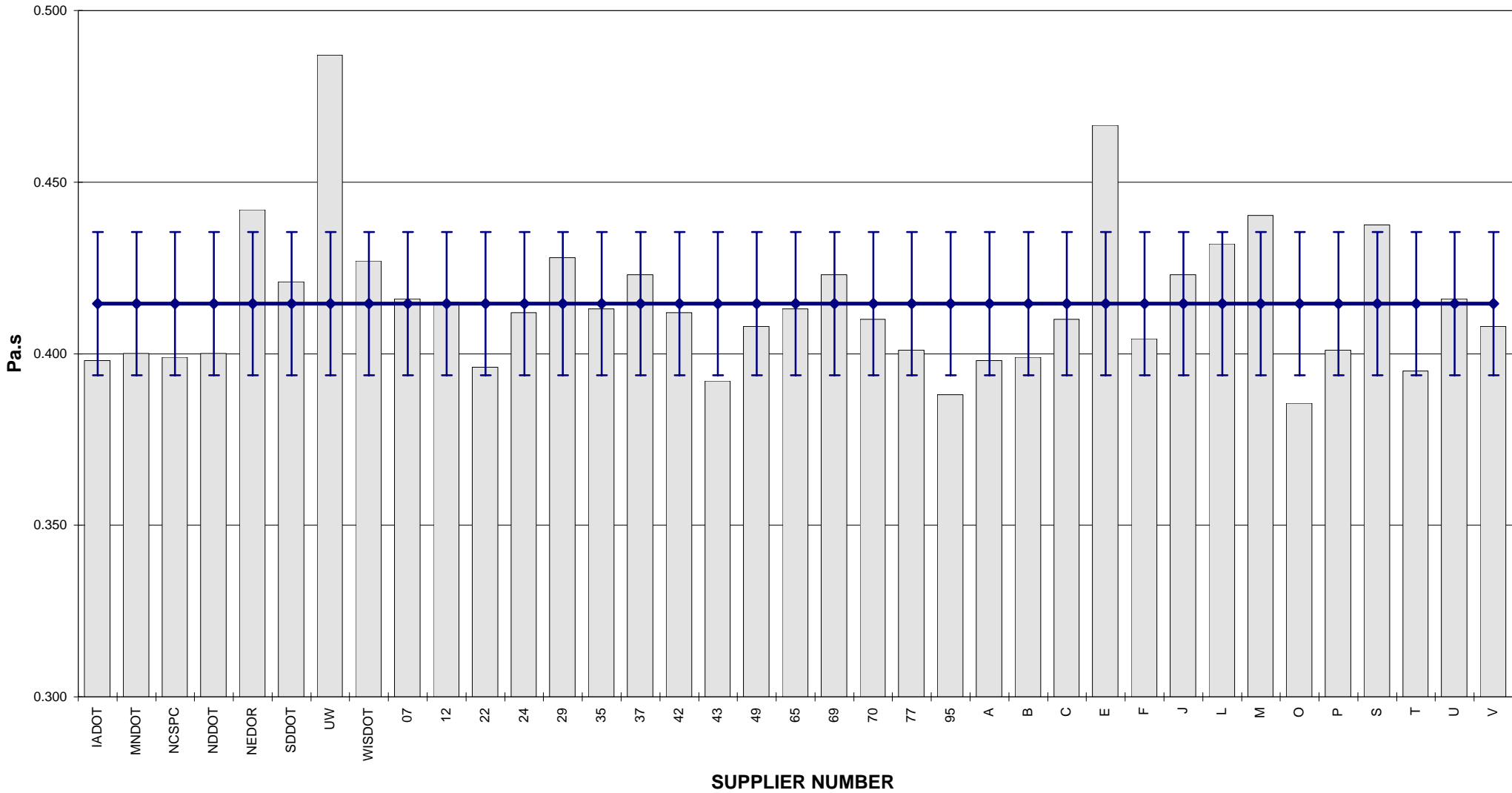
U	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
13	0.418	1.36	3.67	4110	-0.324	197	0.346
93	0.414	1.34	3.65	3990	-0.323	201	0.344
Average	0.416	1.35	3.66	4,050	-0.324	199	0.345

V	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
58	0.408	1.32	3.47	4360	-0.396	198	0.333
78	0.408	1.30	3.45	4373	-0.394	210	0.332
81	0.408	1.34	3.59	4292	-0.396	205	0.333
Average	0.408	1.32	3.50	4,342	-0.395	204	0.333

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SUMMARY B

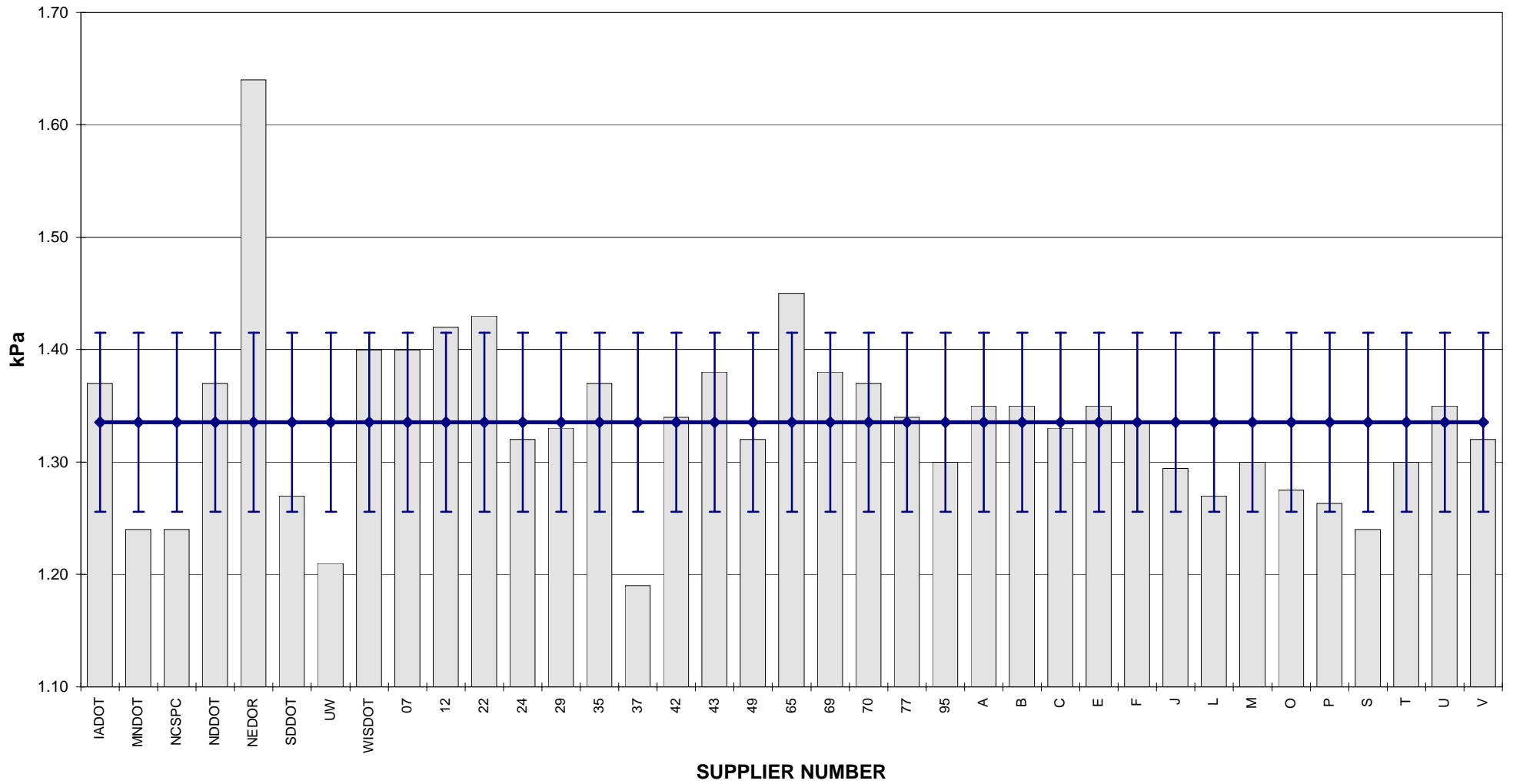
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ROTATIONAL VISCOSITY



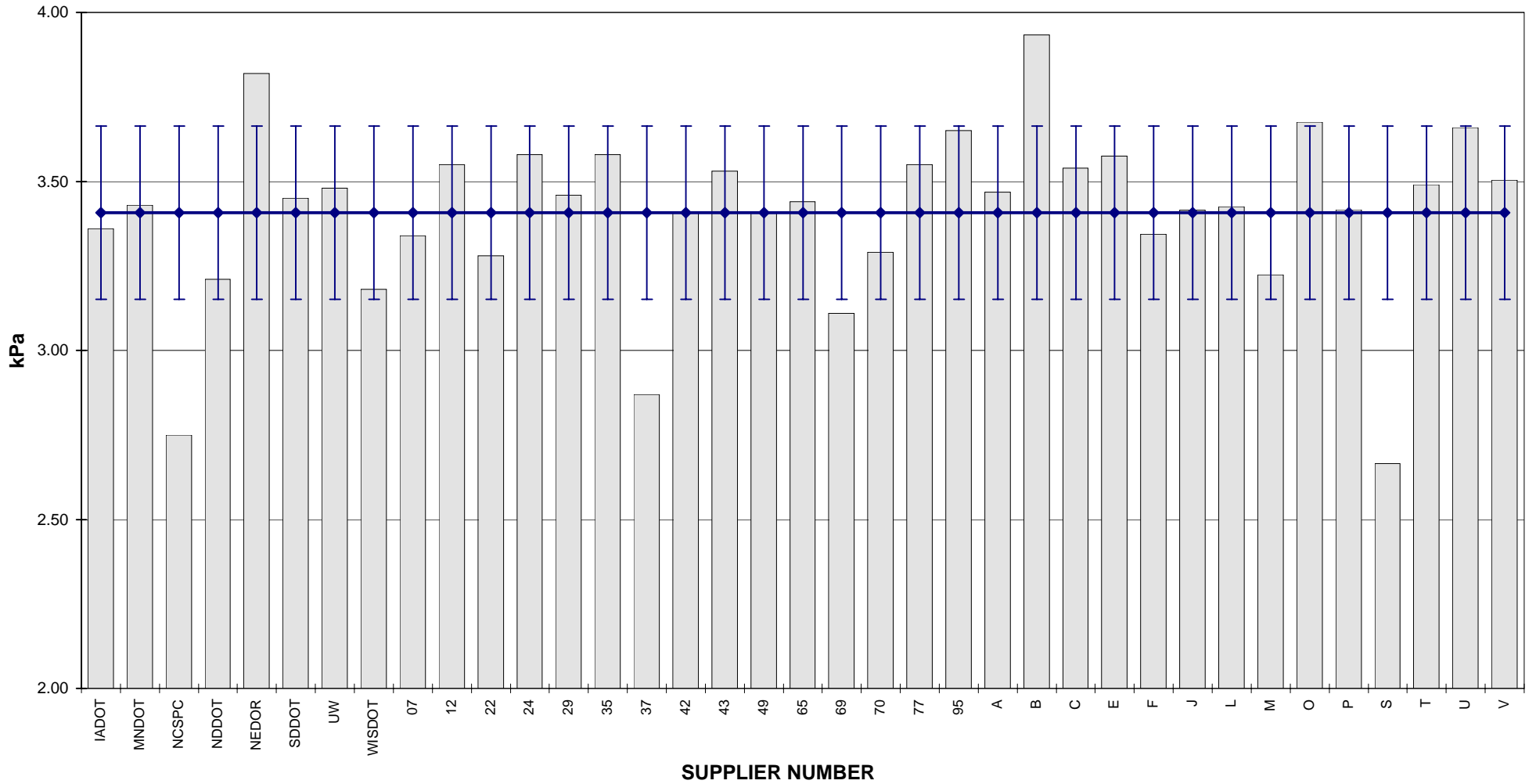
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**DSR - ORIGINAL**

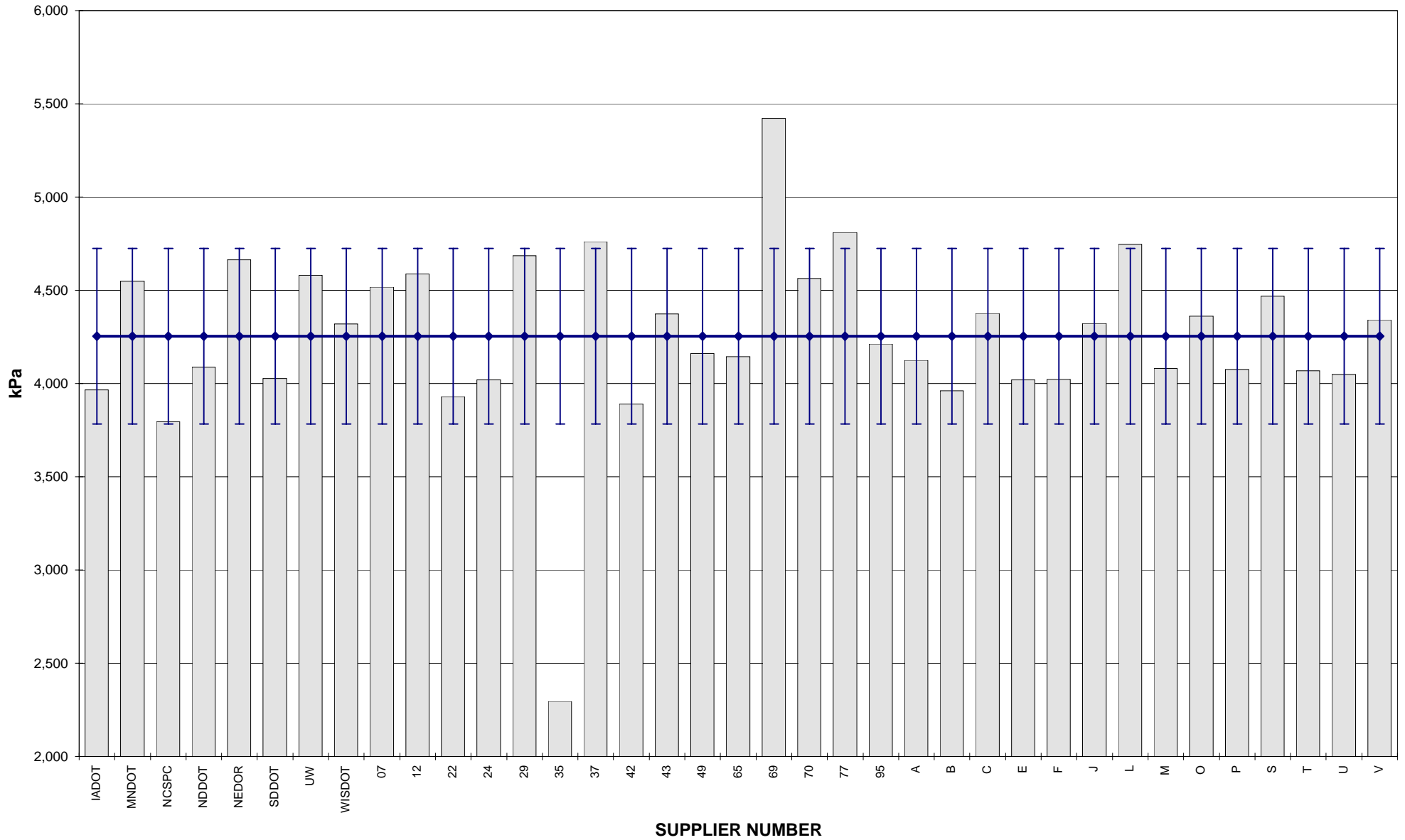


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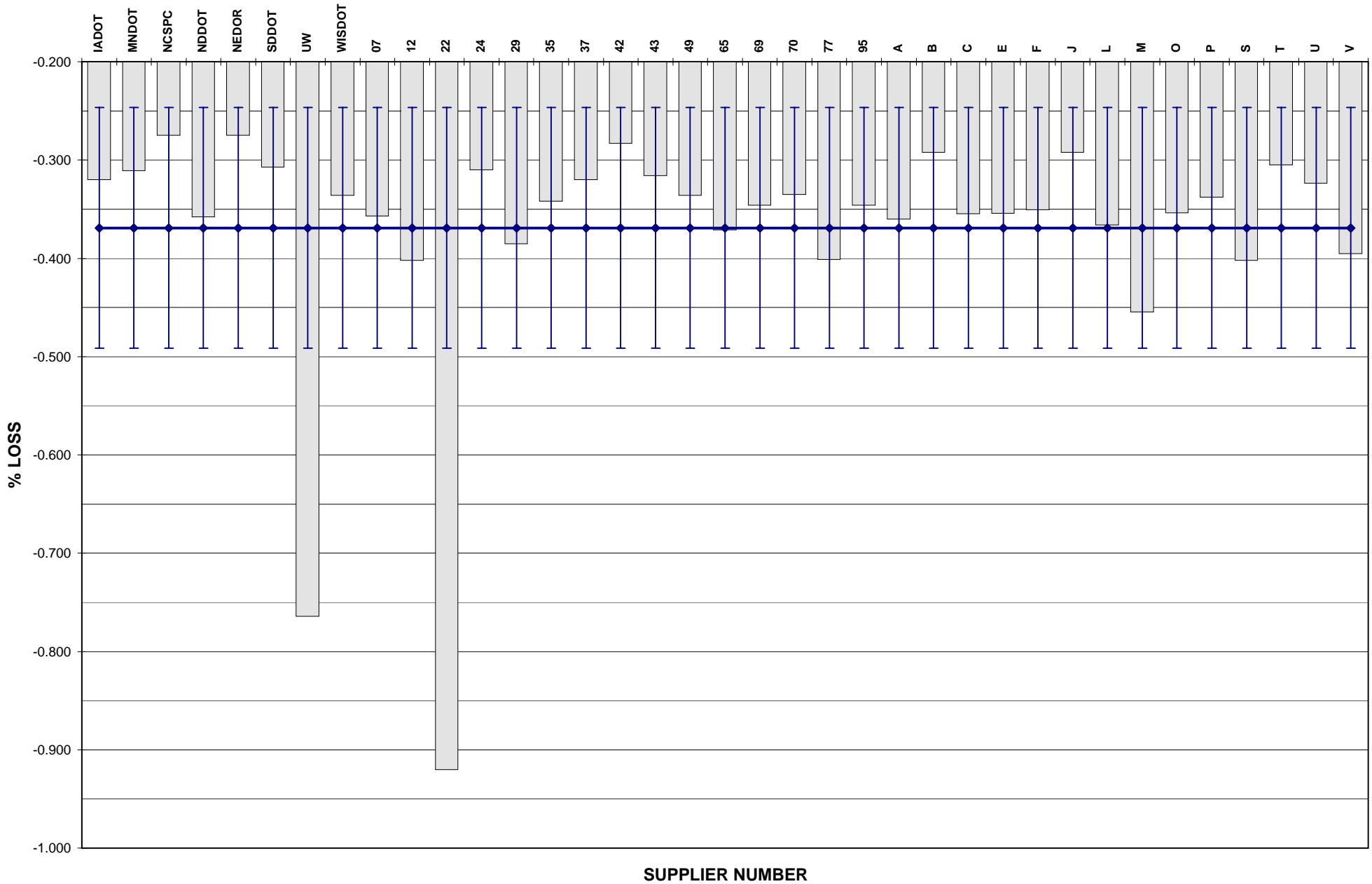
**DSR - RTFO**



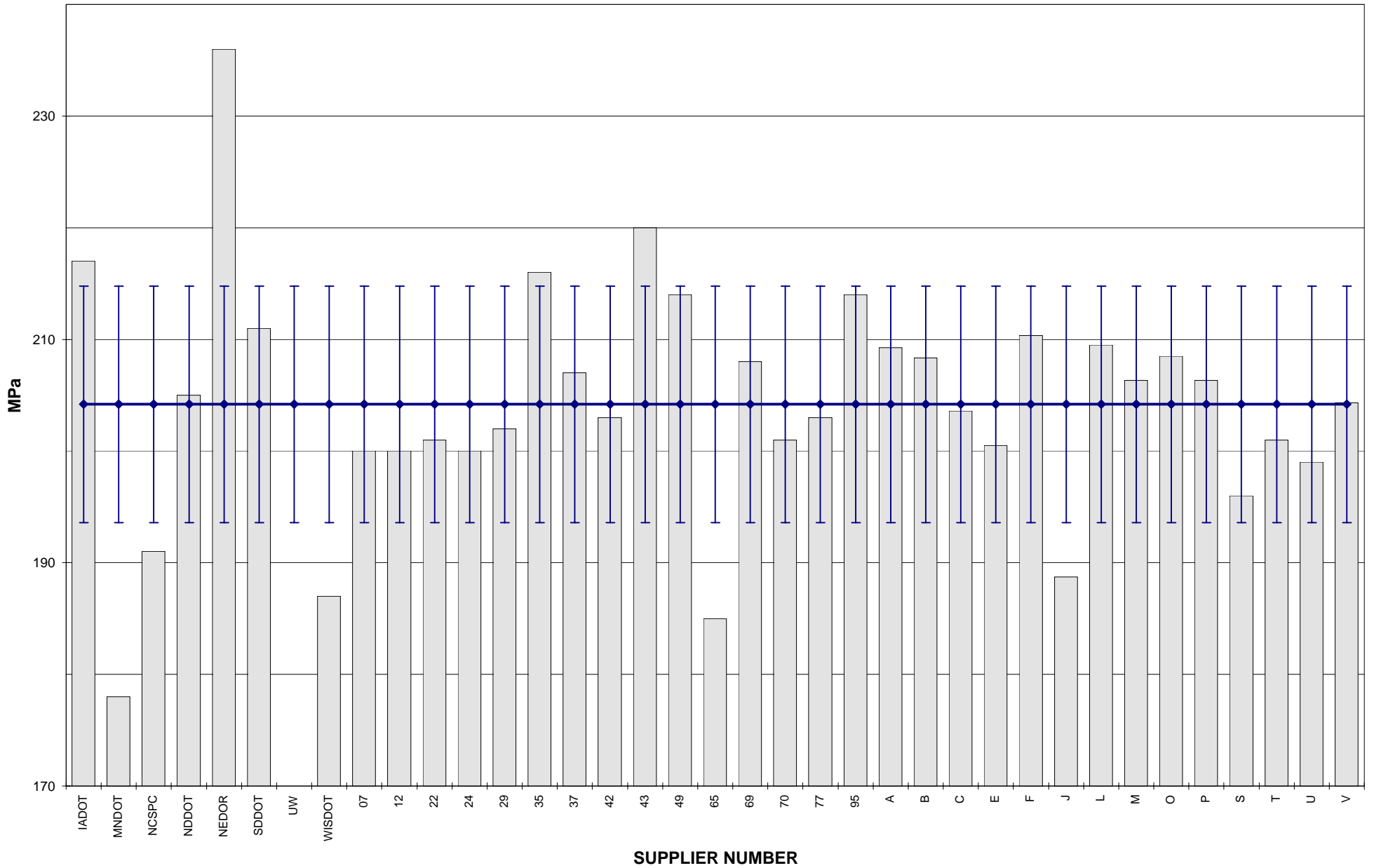
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DSR - PAV**



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**RTFO MASS LOSS**



**COMBINED STATE BINDER GROUP ROUND ROBIN 2008-1**  
**SUMMARY B**  
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**BBR STIFFNESS**





**COMBINED STATE BINDER GROUP ROUND ROBIN 2008-1**  
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**BBR m-VALUE**

