

**COMBINED STATE BINDER GROUP ROUND ROBIN 2008-4  
SUMMARY B  
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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	0.290	1.42	3.51	3439	-0.467	243	0.321
MNDOT	0.262	1.36	3.39	3798	-0.470	199	0.300
NCSPC	0.283	1.46	3.40	3130	-0.437	238	0.328
NDDOT	0.285	1.35	3.39	4408	-0.535	247	0.323
NEDOR	0.273	1.37	3.23	4282	-0.344	252	0.312
SDDOT	0.292	1.36	3.23	4410	-0.415	248	0.314
UW	0.300	1.52	3.52	4482	-0.634	110	0.372
WISDOT	0.300	1.51	3.74	3546	-0.445	221	0.315
07	0.281	1.35	3.24	4621	-0.454	225	0.322
12	0.278	1.38	3.42	4946	-0.612	254	0.322
22	0.276	1.42	2.87	2740	-0.533	248	0.323
24	0.280	1.36	3.48	4770	-0.410	231	0.333
29	0.280	1.32	3.43	4630	-0.618	239	0.324
35	0.297	1.34	3.64	4770	-0.444	261	0.310
37	0.301	1.25	2.98	4921	-0.484	237	0.326
42	0.287	1.42	3.61	4520	-0.667	266	0.317
43	0.282	1.36	3.30	4477	-0.390	253	0.331
49	0.283	1.32	3.58	4320	-0.524	247	0.315
65	0.278	1.36	3.27	4178	-0.470	212	0.320
69	0.287	1.33	3.13	4870	-0.466	217	0.320
70	0.195	1.36	3.92	4703	-0.516	245	0.313
77	0.288	1.37	3.55	3574	-0.577	238	0.313
83	0.292	1.27	3.30	3679	-0.467	204	0.330
95	0.298	1.33	3.54	4689	-0.534	251	0.312
A	0.271	1.41	3.67	4223	-0.550	246	0.330
B	0.302	1.37	3.65	4214	-0.418	233	0.329
C	0.277	1.34	3.42	4097	-0.436	247	0.321
E	0.285	1.35	3.54	4651	-0.514	238	0.325
F	0.275	1.40	3.52	4320	-0.521	245	0.325
J	0.295	1.30	3.26	3855	-0.378	214	0.330
L	0.303	1.31	3.61	4850	-0.506	222	0.331
M	0.222	1.50	3.77	3362	-0.400	227	0.339
O	0.294	1.33	3.53	5296	-0.574	255	0.313
P	0.279	1.38	3.69	3441	-0.493	228	0.331
S	0.306	1.34	3.60	4793	-0.612	240	0.324
T	0.279	1.34	3.59	4625	-0.428	237	0.326
U	0.287	1.34	3.52	4765	-0.439	231	0.329
V	0.285	1.36	3.53	4293	-0.478	251	0.323
<b>Average</b>	0.282	1.37	3.46	4,281	-0.491	234	0.323
<b>Std. Dev.</b>	0.0205	0.0585	0.2128	578.10	0.0763	25.74	0.0113
<b>Coef. of Var.</b>	7.270	4.282	6.146	13.503	15.533	10.990	3.487

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A	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
19	0.274	1.43	3.65	4060	-0.582	248	0.329
51	0.272	1.36	3.63	4710	-0.499	242	0.330
97	0.268	1.40	3.72	4100	-0.522	245	0.331
98	0.268	1.43	3.66	4020	-0.597	250	0.329
Average	0.271	1.41	3.67	4223	-0.550	246	0.330

B	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
01	0.300	1.37	3.59	4253	-0.394	234	0.333
17	0.302	1.36	3.15	4334	-0.410	237	0.327
45	0.305	1.38	4.20	4055	-0.449	228	0.326
Average	0.302	1.37	3.65	4214	-0.418	233	0.329

C	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
21	0.278	1.33	3.49	4047	-0.417	249	0.323
28	0.273	1.33	3.47	3815	-0.395	235	0.325
66	0.278	1.39	3.32	4124	-0.448	255	0.321
90	0.276	1.31	3.37	4036	-0.448	256	0.315
99	0.279	1.33	3.46	4461	-0.470	240	0.321
Average	0.277	1.34	3.42	4097	-0.436	247	0.321

E	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
15	0.285	1.35	3.53	4572	-0.523	241	0.329
89	0.285	1.34	3.55	4729	-0.505	235	0.321
Average	0.285	1.35	3.54	4651	-0.514	238	0.325

F	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
02	0.272	1.38	3.55	4260	-0.595	246	0.326
11	0.278	1.34	3.26	4487	-0.528	236	0.321
34	0.269	1.42	3.51	4343	-0.499	247	0.325
48	0.286	1.39	3.53	4476	-0.442	248	0.327
56	0.279	1.46	3.63	4381	-0.564	251	0.327
62	0.266	1.39	3.66	3972	-0.497	243	0.324
Average	0.275	1.40	3.52	4320	-0.521	245	0.325

J	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
05	0.291	1.35	3.26	4009	-0.474	223	0.327
08	0.291	1.31	3.22	3986	-0.316	205	0.336
31	0.299	1.25	3.21	4273	-0.360	226	0.326
41	0.296	1.29	3.30	3929	-0.328	216	0.333
44	0.298	1.34	3.31	3395	-0.352	209	0.331
52	0.299	1.30	3.48	3998	-0.491	219	0.329
74	0.292	1.29	3.07	3394	-0.325	202	0.331
Average	0.295	1.30	3.26	3855	-0.378	214	0.330

L	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
25	0.303	1.32	3.61	4879	-0.491	223	0.330
59	0.303	1.30	3.61	4820	-0.520	221	0.331
Average	0.303	1.31	3.61	4850	-0.506	222	0.331

M	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
04	0.208	1.39	3.76	3368	-0.395	228	0.340
47	0.260	1.52	3.81	3335	-0.440	228	0.338
57	0.198	1.60	3.75	3382	-0.365	225	0.338
Average	0.222	1.50	3.77	3362	-0.400	227	0.339

O	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
76	0.293	1.33	3.58	5265	-0.578	256	0.313
85	0.295	1.33	3.48	5327	-0.569	253	0.313
Average	0.294	1.33	3.53	5296	-0.574	255	0.313

P	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
30	0.280	1.38	3.76	3736	-0.497	222	0.337
71	0.278	1.33	3.43	3252	-0.427	224	0.321
73	0.280	1.43	3.89	3334	-0.556	237	0.336
Average	0.279	1.38	3.69	3441	-0.493	228	0.331

S	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
53	0.303	1.38	3.65	4785	-0.613	234	0.328
64	0.309	1.29	3.54	4801	-0.611	246	0.320
Average	0.306	1.34	3.60	4793	-0.612	240	0.324

T	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
39	0.274	1.35	3.62	4560	-0.427	234	0.328
87	0.284	1.32	3.56	4690	-0.429	240	0.324
Average	0.279	1.34	3.59	4625	-0.428	237	0.326

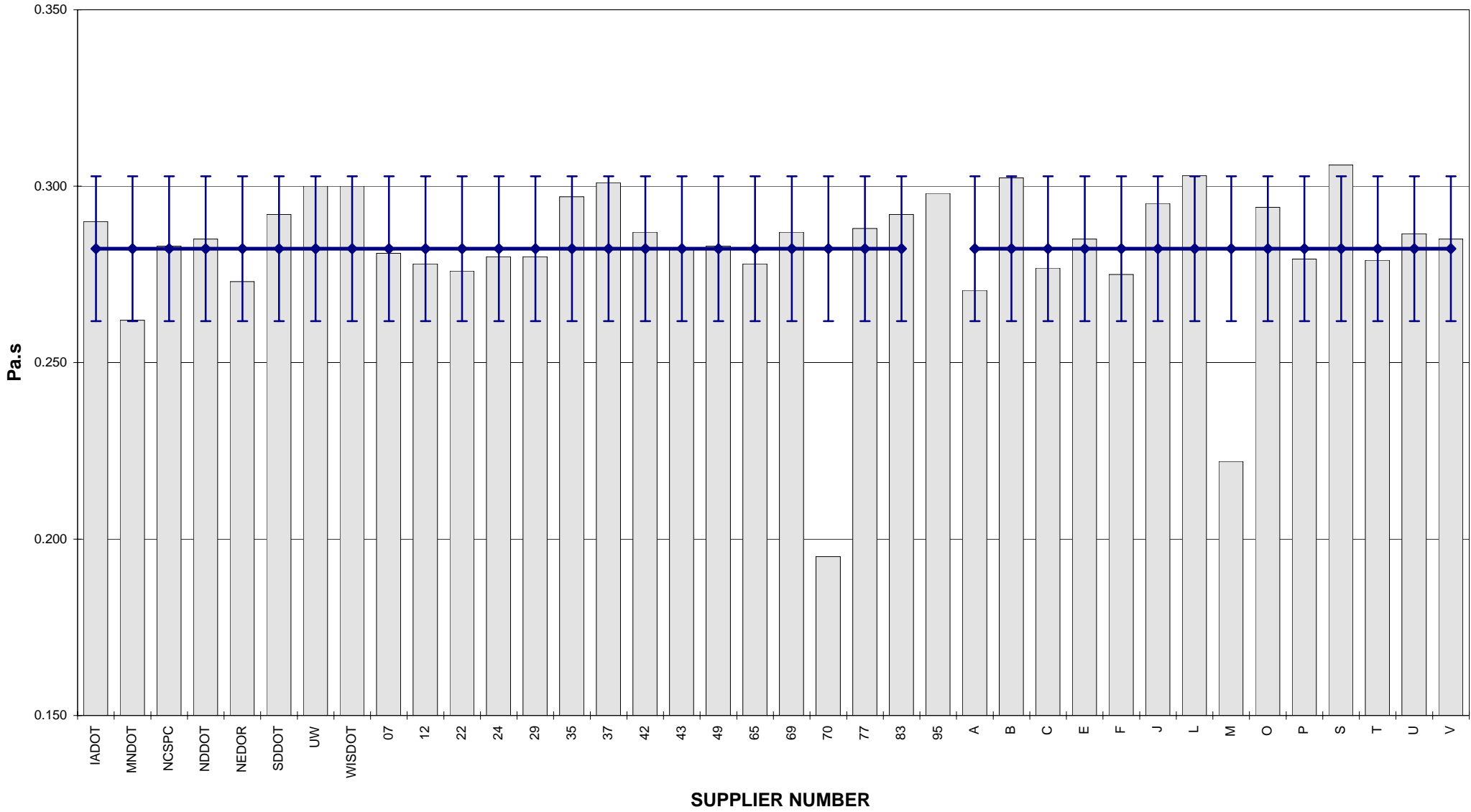
U	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
13	0.285	1.34	3.51	4780	-0.422	233	0.328
93	0.288	1.34	3.53	4750	-0.456	229	0.329
Average	0.287	1.34	3.52	4765	-0.439	231	0.329

V	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
58	0.285	1.37	3.49	4440	-0.444	246	0.321
78	0.285	1.34	3.53	4230	-0.502	257	0.324
81	0.285	1.37	3.57	4210	-0.487	251	0.325
Average	0.285	1.36	3.53	4293	-0.478	251	0.323

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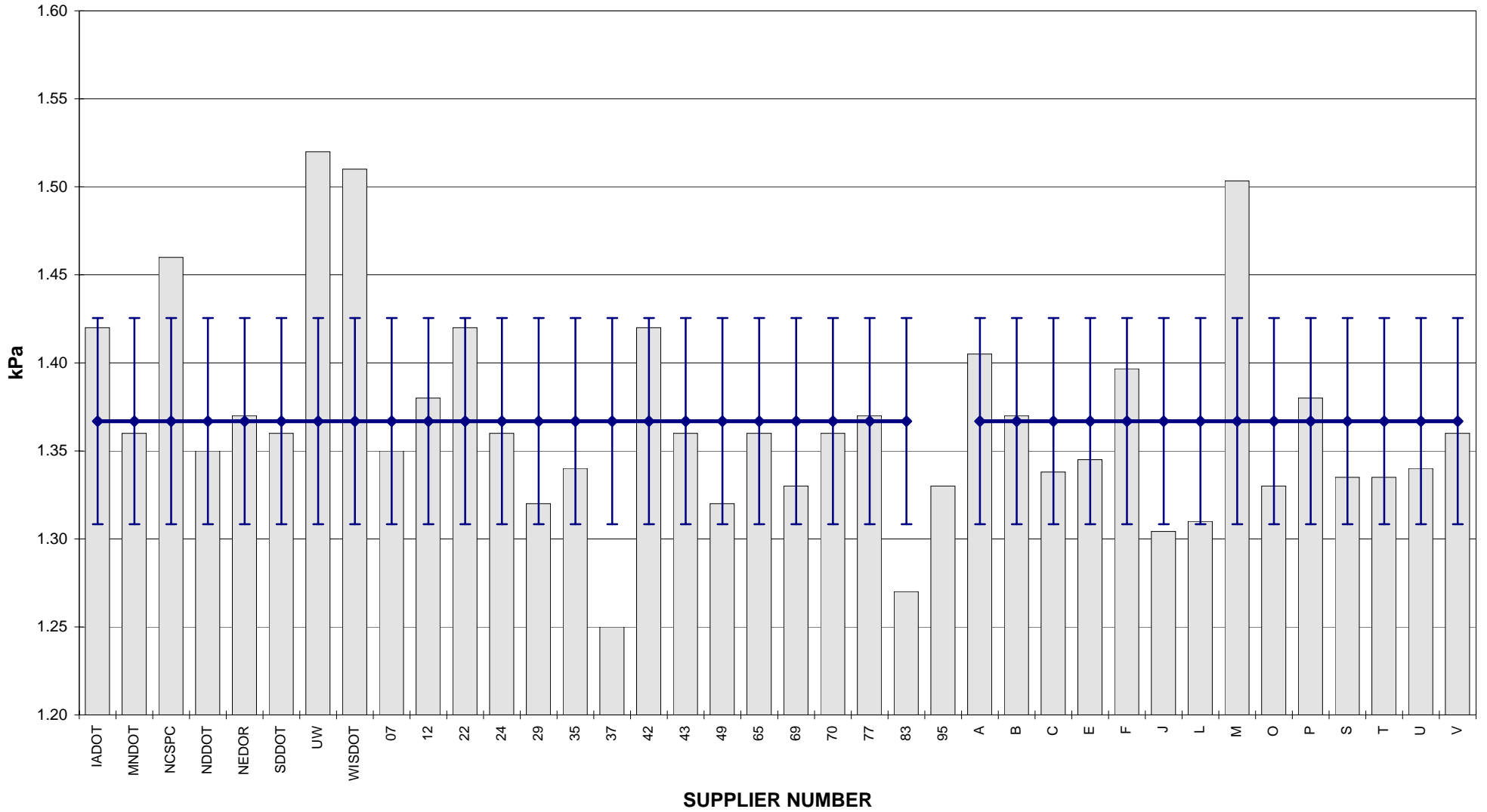
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ROTATIONAL VISCOSITY



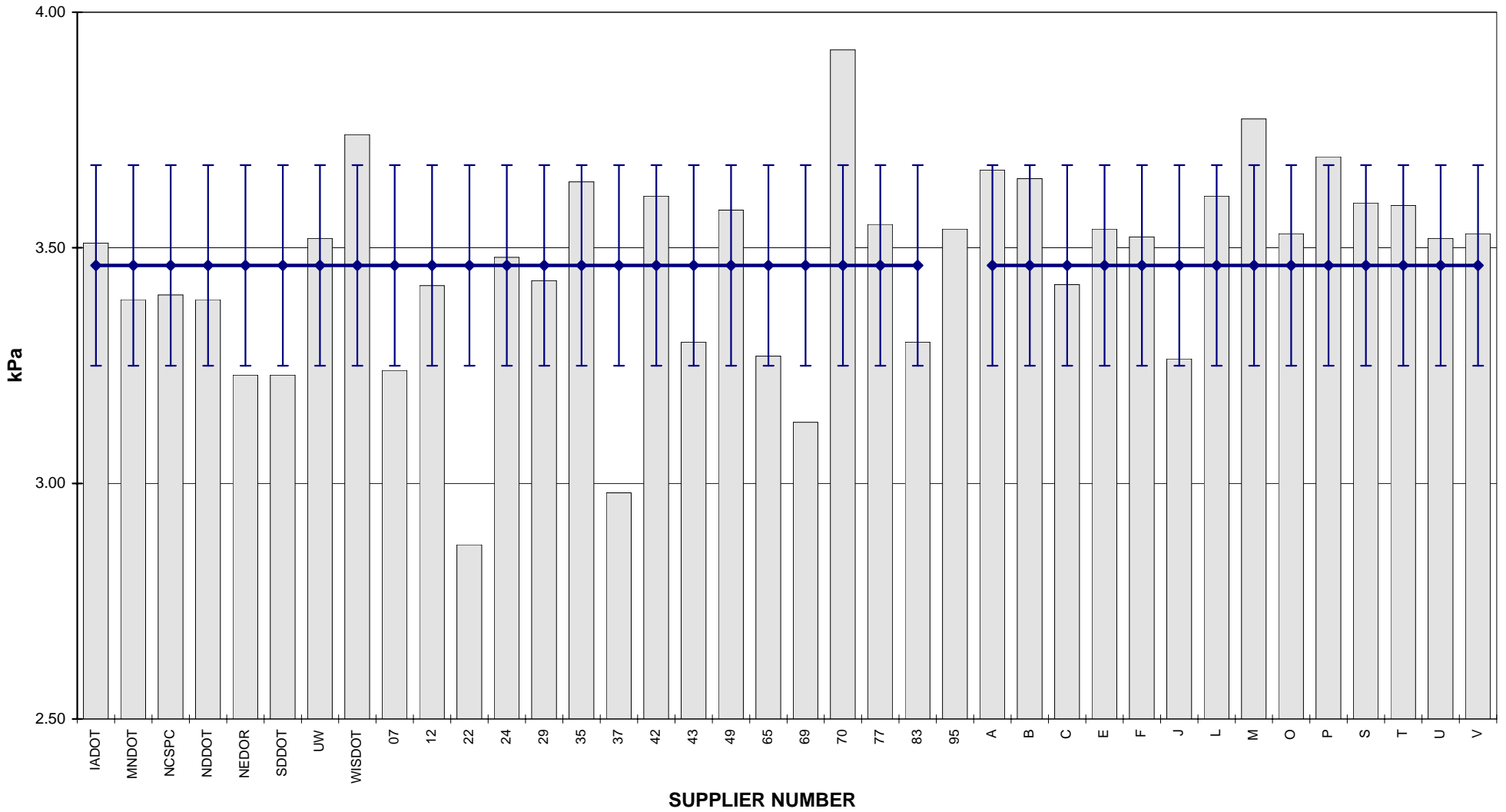
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**DSR - ORIGINAL**

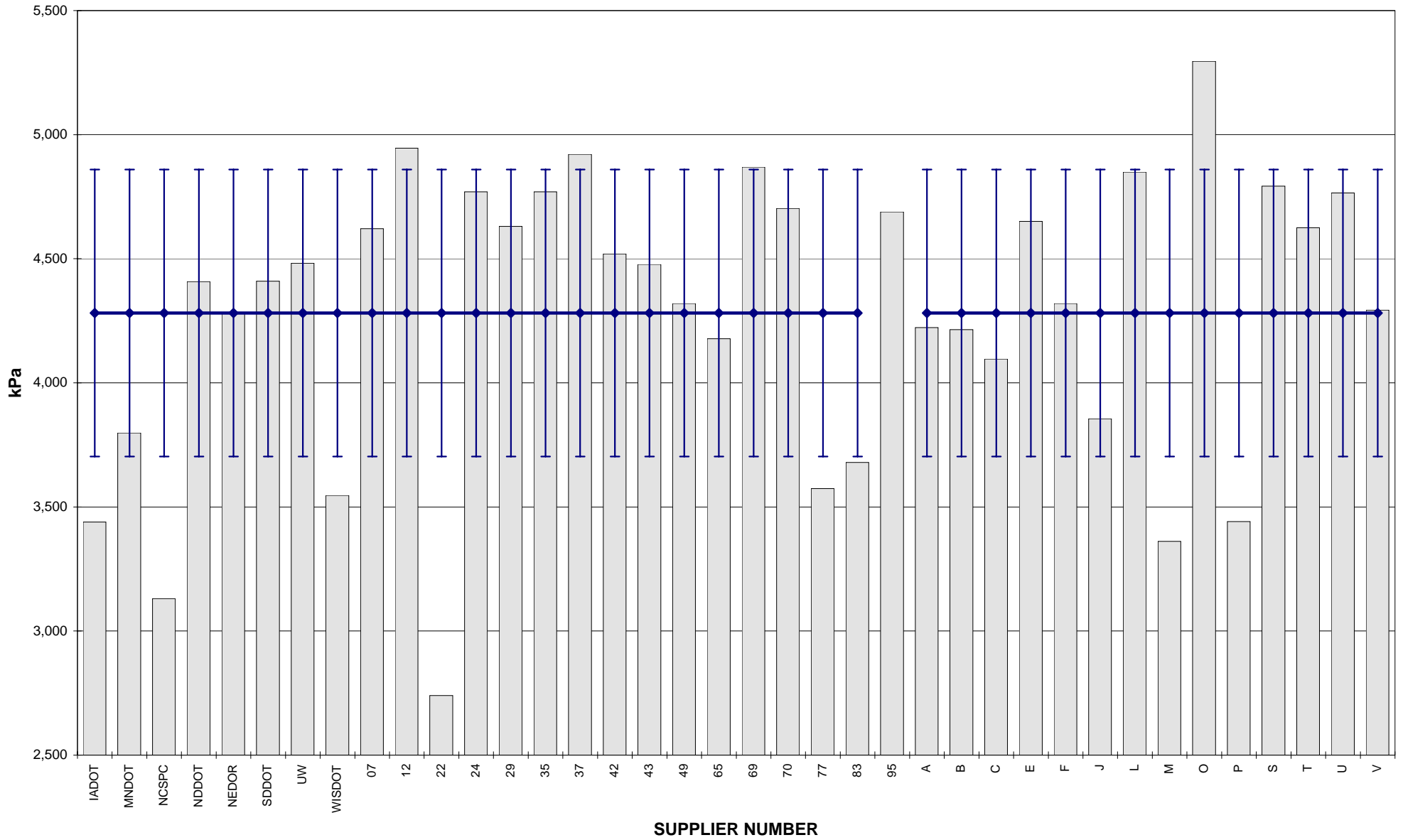


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**DSR - RTFO**



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DSR - PAV**

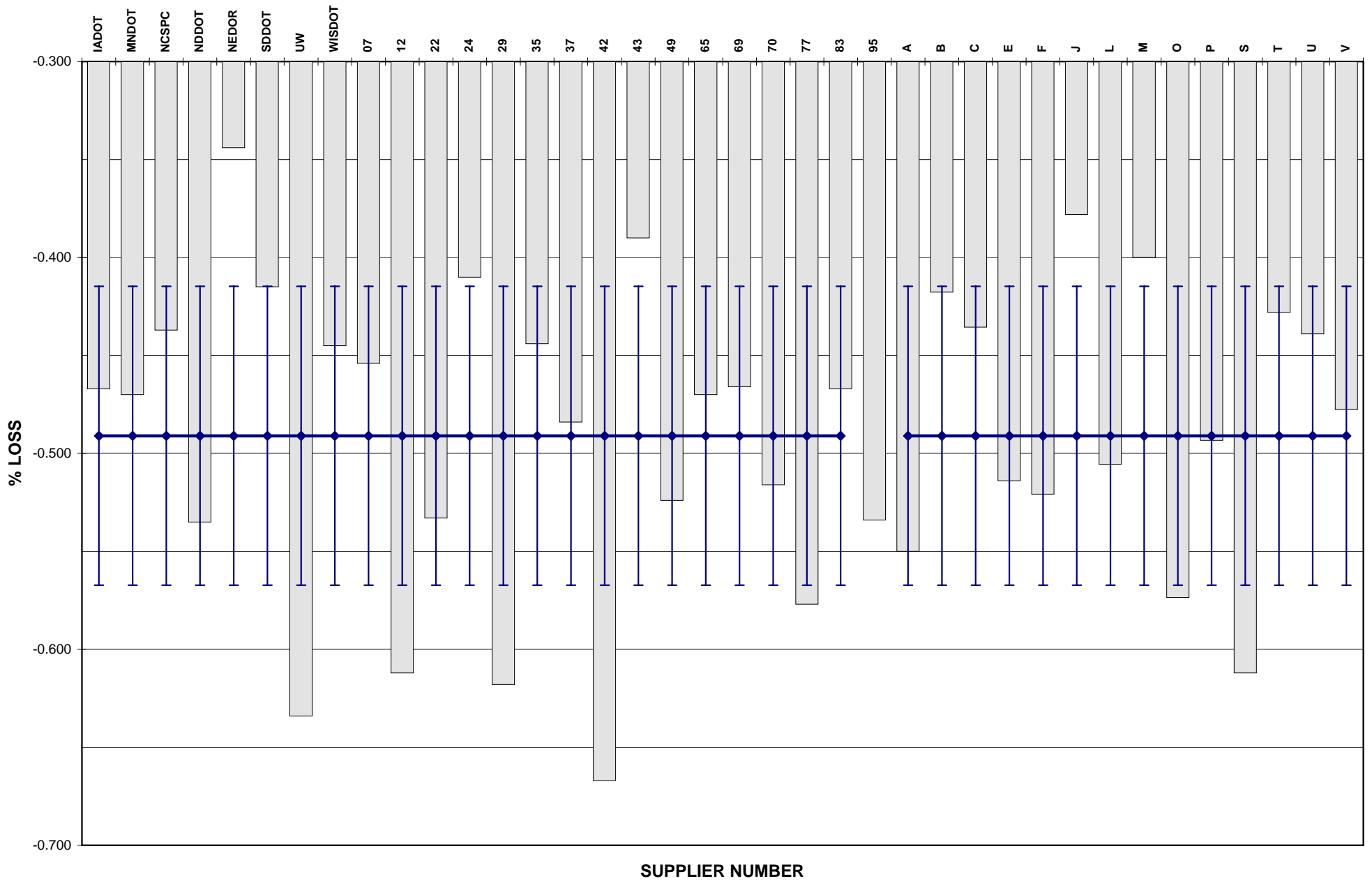


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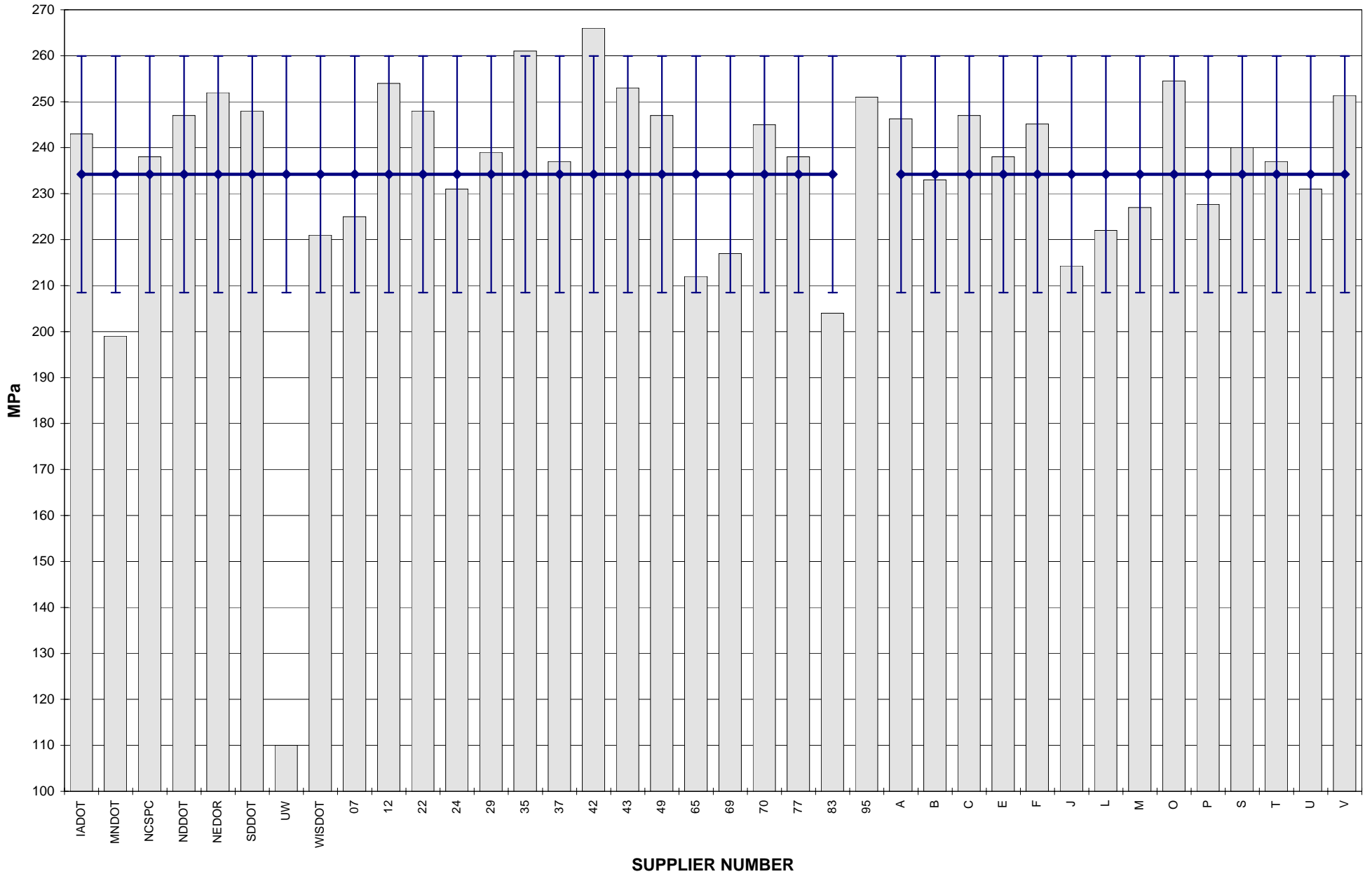
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RTFO MASS LOSS



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**BBR STIFFNESS**





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**BBR m-VALUE**

