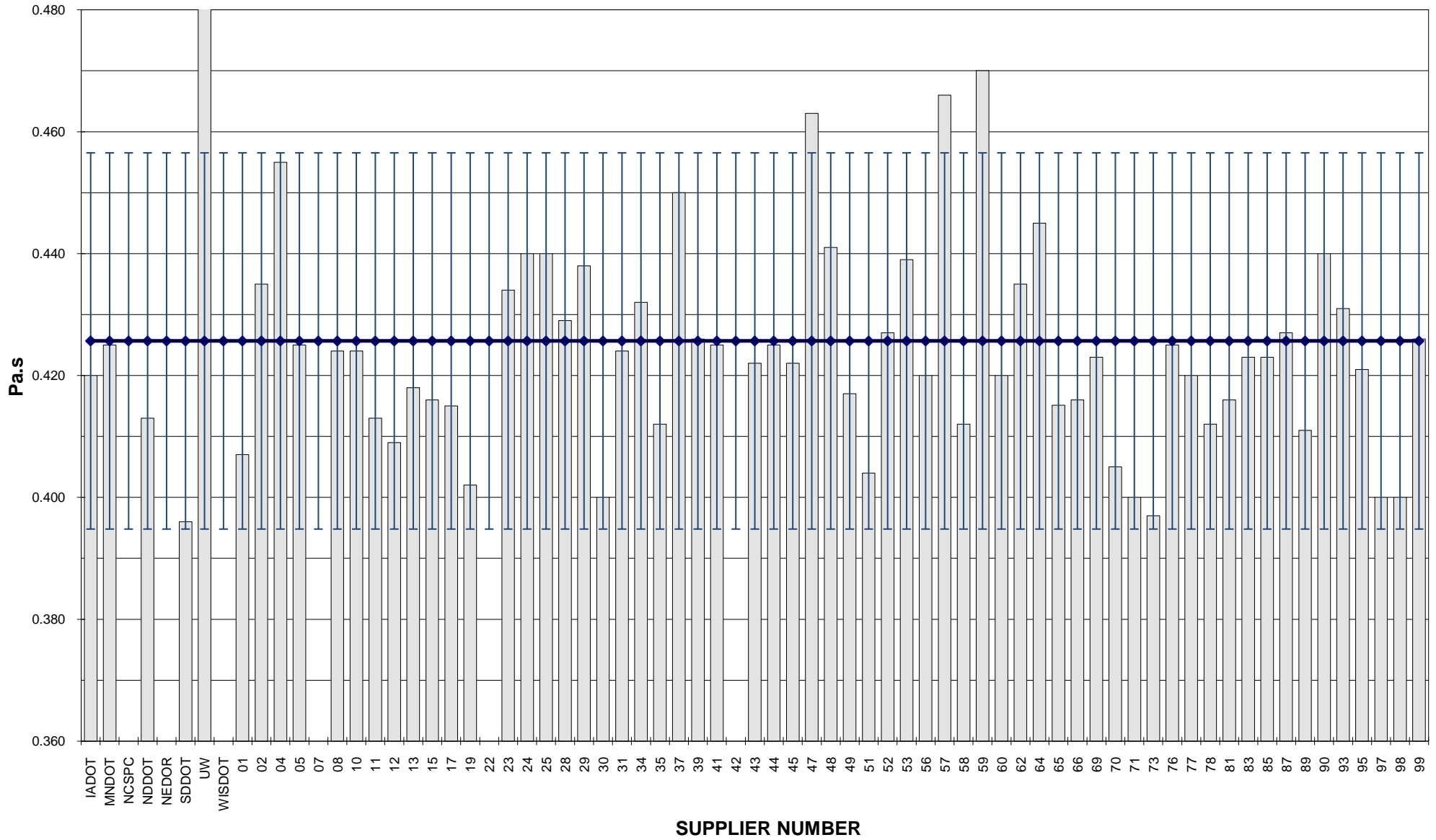


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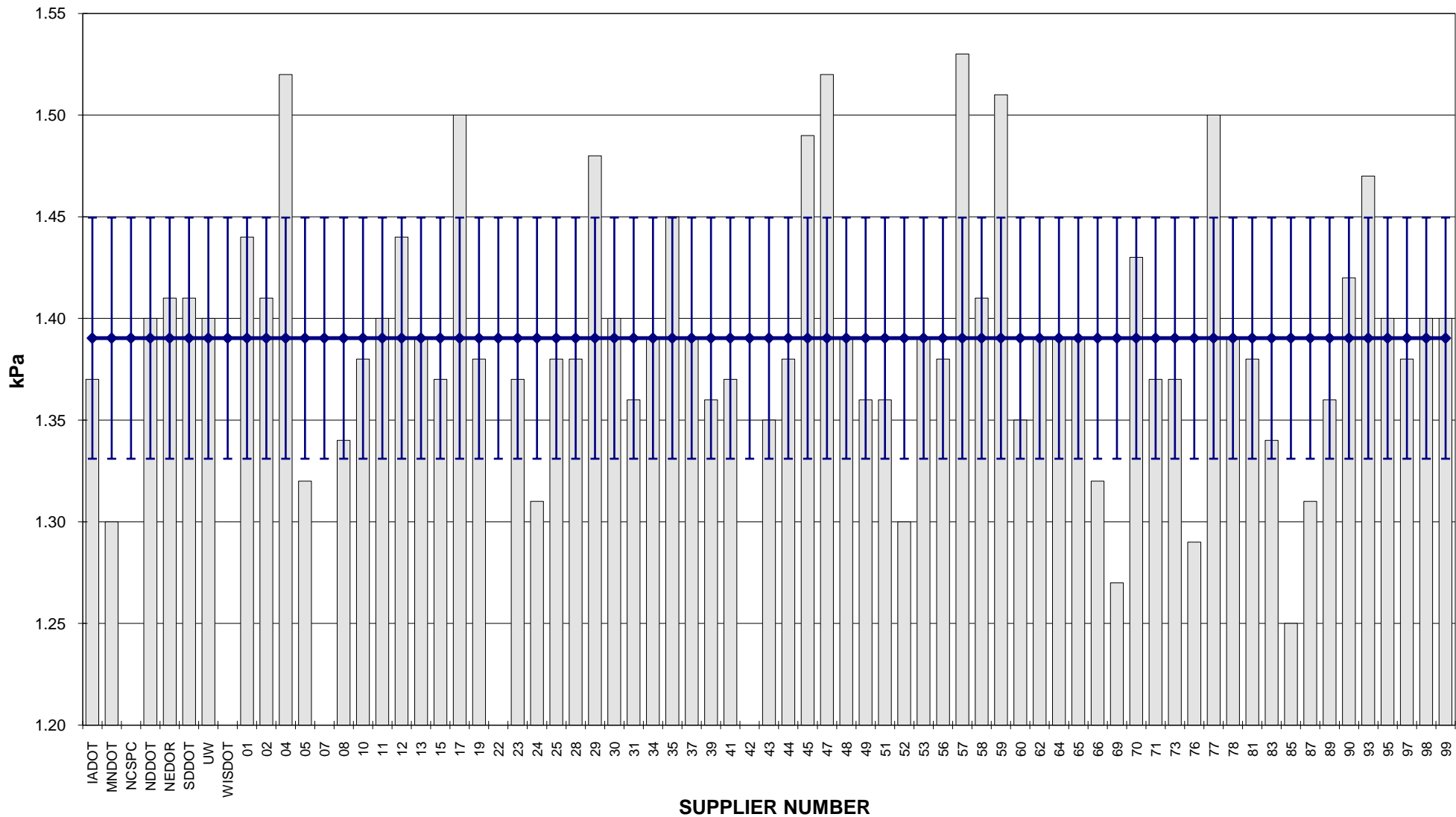
Supplier Number	Rotational Viscosity (Pa.s) @135°C	DSR Original (kPa) @64°C	DSR RTFO (kPa) @64°C	DSR PAV (kPa) @25°C	Mass Loss (%) @163°C	BBR S-value (MPa) @-12°C	BBR m-value @-12°C	DTT Strain (%) @-12°C	DTT Stress (MPa) @-12°C	CRITICAL CRACK TEMP (°C)	MSCR % RECOVERY @ 100Pa @58° C	MSCR % RECOVERY @ 3200Pa @ 58° C
IADOT	0.420	1.37	3.22	3970	-0.166	209	0.321				6.99	3.70
MNDOT	0.425	1.30	2.99	4120	-0.075	165	0.317				8.14	4.91
NCSPC												
NDDOT	0.413	1.40	3.28	4541	-0.187	204	0.323					
NEDOR	0.360	1.41	3.68	4300	-0.049	220	0.324				7.70	4.22
SDDOT	0.396	1.41	3.48	4815	-0.126	233	0.323					
UW	0.628	1.40	3.57	4245	-0.210	204	0.339					
WISDOT												
01	0.407	1.44	3.94	4014	-0.091	210	0.335					
02	0.435	1.41	3.39	3855	-0.203	226	0.331				7.56	3.70
04	0.455	1.52	3.56	4359	-0.198	221	0.323					
05	0.425	1.32	3.35	4207	-0.187	209	0.333				6.86	3.50
07												
08	0.424	1.34	3.42	4336	-0.181	205	0.327				6.90	3.56
10	0.424	1.38	3.34	4424	-0.185	204	0.334				6.92	3.51
11	0.413	1.40	3.44	3889	-0.219	231	0.328				6.17	3.68
12	0.409	1.44	3.40	4952	-0.237							
13	0.418	1.39	3.38	4155	-0.153	191	0.335	1.80	4.36	-23.8	7.60	3.70
15	0.416	1.37	3.36	4696	-0.185	199	0.334				3.99	4.01
17	0.415	1.50	3.78	4337	-0.107	203	0.336					
19	0.402	1.38	3.42	3949	-0.170	211	0.336					
22												
23	0.434	1.37	3.41	4132	-0.131	200	0.335				8.15	4.25
24	0.440	1.31	3.16	4570	-0.163	198	0.342				6.71	2.92
25	0.440	1.38	3.60	4465	-0.104	204	0.334					
28	0.429	1.38	3.33	4720	-0.190	228	0.319				5.86	4.51
29	0.438	1.48	3.91	3972	-0.181	192	0.348				9.36	4.34
30	0.400	1.40	3.48	4242	-0.171	201	0.334					
31	0.424	1.36	3.30	4368	-0.185	204	0.332				6.71	3.50
34	0.432	1.39	3.60	4383	-0.208	231	0.324				6.08	3.91
35	0.412	1.45	3.45	4150	-0.145	210	0.329					
37	0.450	1.39	3.35	4518	-0.153	196	0.339	1.59	3.95	-23.8	5.14	3.75
39	0.426	1.36	3.41	4296	-0.183	213	0.328				6.75	3.41
41	0.425	1.37	3.38	4367	-0.181	203	0.329				6.99	3.54
42												
43	0.422	1.35	3.17	4050	-0.124	205	0.343					
44	0.425	1.38	3.30	4427	-0.188	198	0.331				7.12	3.53
45	0.422	1.49	3.74	3975	-0.111	210	0.328					
47	0.463	1.52	3.58	4367	-0.173	222	0.322					
48	0.441	1.39	3.32	4025	-0.157	213	0.327				6.32	3.34
49	0.417	1.36	3.47	4440	-0.173	207	0.339				8.35	3.26
51	0.404	1.36	3.44	4091	-0.173	213	0.331					
52	0.427	1.30	3.32	4280	-0.183	219	0.332				6.76	3.44
53	0.439	1.39	3.37	4420	-0.249	190	0.331					
56	0.420	1.38	3.15	3861	-0.015	203	0.330				5.90	3.17
57	0.466	1.53	3.56	4349	-0.183	225	0.319					
58	0.412	1.41	3.43	4070	-0.177	203	0.333				6.51	3.41
59	0.470	1.51	3.26	4979	-0.157	237	0.322					
60	0.420	1.35	2.96	4320	-0.195	204	0.327					
62	0.435	1.39	3.83	3817	-0.133	193	0.332				5.87	3.36
64	0.445	1.39	3.58	4350	-0.196	193	0.332					
65	0.415	1.39	3.46	3934	-0.137	205	0.330					
66	0.416	1.32	3.61	4504	-0.164	210	0.326				8.23	5.46
69	0.423	1.27	2.77	4534	-0.161	201	0.340				5.36	2.69
70	0.405	1.43	3.33	4495	-0.154	187	0.332					
71	0.400	1.37	3.44	4248	-0.171	206	0.336					
73	0.397	1.37	3.69	4301	-0.192	210	0.336					
76	0.425	1.29	3.40	3890	-0.204	206	0.331				6.50	3.27
77	0.420	1.50	3.61	4380	-0.152	190	0.330					
78	0.412	1.39	3.45	4040	-0.173	202	0.334				6.49	3.47
81	0.416	1.38	3.41	3700	-0.173	206	0.332				6.66	3.34
83	0.423	1.34	3.20	4068	-0.186	201	0.341					
85	0.423	1.25	3.78	3220	-0.178	185	0.333				7.73	4.14
87	0.427	1.31	3.34	4450	-0.199	213	0.331				6.64	3.41
89	0.411	1.36	3.27	4315	-0.180	191	0.335				10.59	4.22
90	0.440	1.42	3.62	4418	-0.209	230	0.320				8.25	5.50
93	0.431	1.47	3.40	3936	-0.131	198	0.332				7.88	4.11
95	0.421	1.40	3.24	4480	-0.171	214	0.342					
97	0.400	1.38	3.28	3780	-0.163	202	0.341					
98	0.400	1.40	3.38	4017	-0.168	210	0.333					
99	0.426	1.40	3.54	4382	-0.113	223	0.324				10.66	6.62
Average	0.426	1.39	3.43	4246	-0.165	207	0.331	1.70	4.16	-23.80	7.09	3.85
Std. Dev.	0.0309	0.0593	0.2086	301.90	0.0404	12.97	0.0065	0.1485	0.2899	0.0000	1.3319	0.7667
Coef. of Var.	7.252	4.265	6.090	7.110	24.470	6.268	1.959	8.761	6.977	0.000	18.780	19.927

ROTATIONAL VISCOSITY



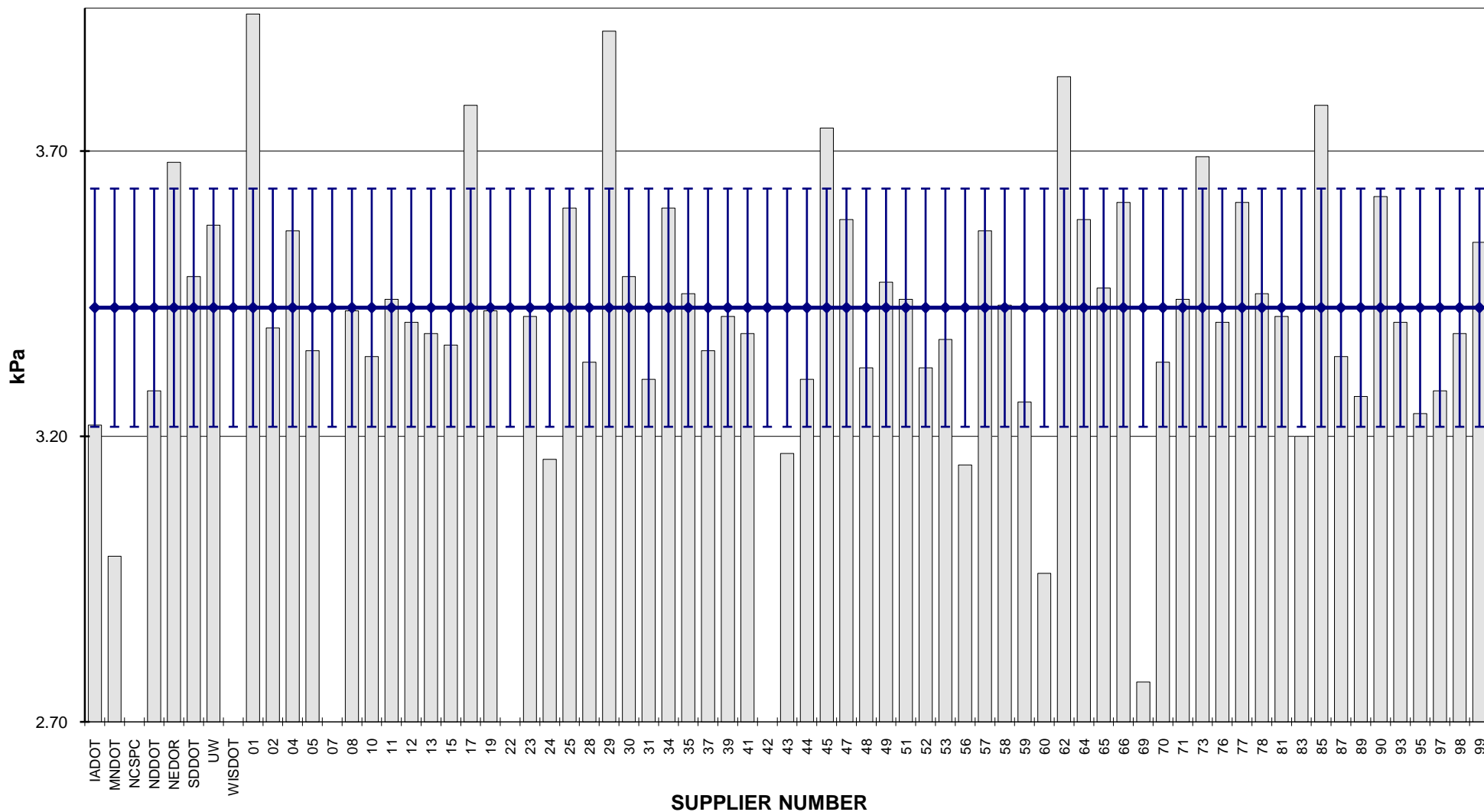
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DSR - ORIGINAL



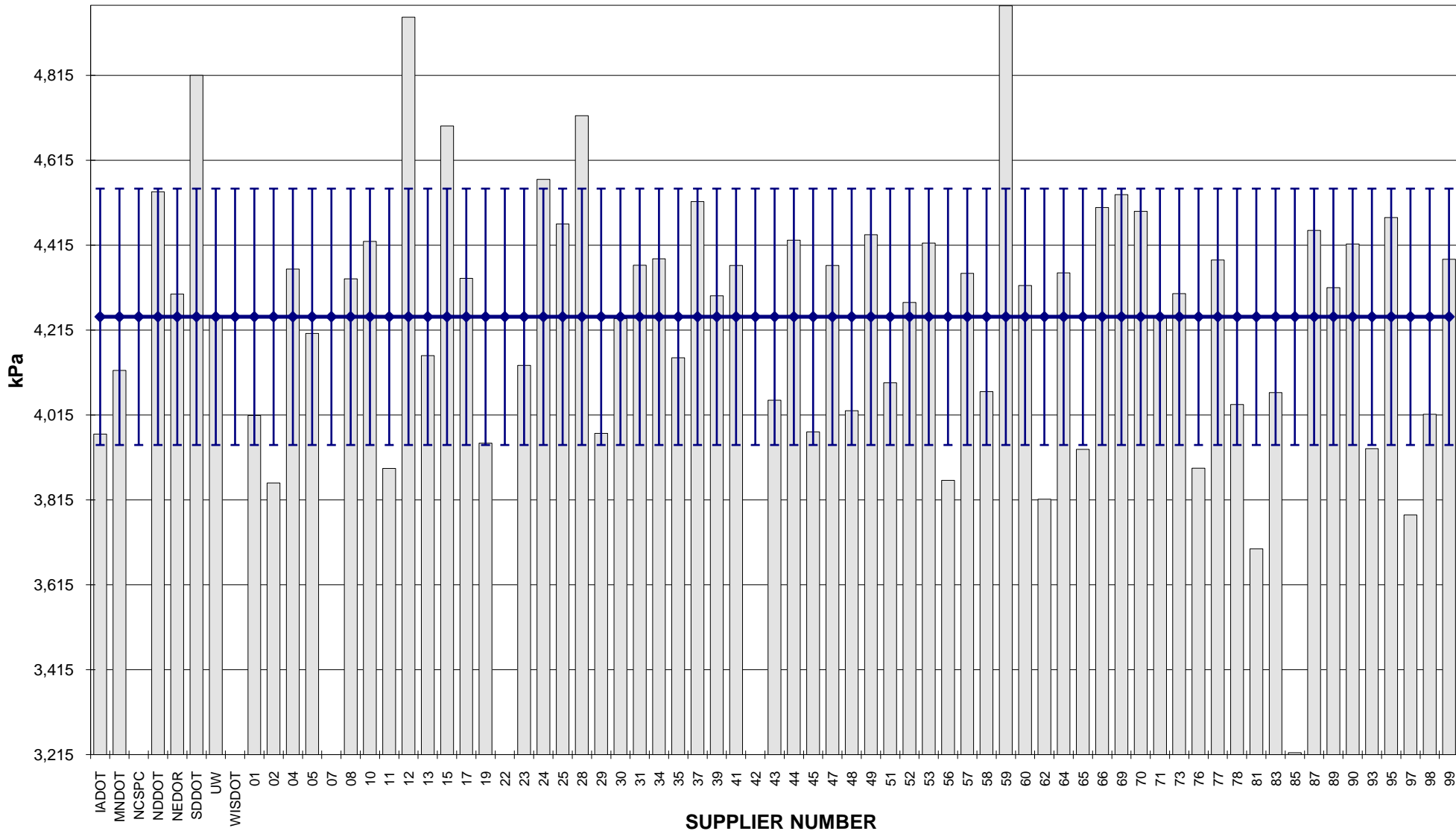
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DSR - RTFO



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DSR - PAV

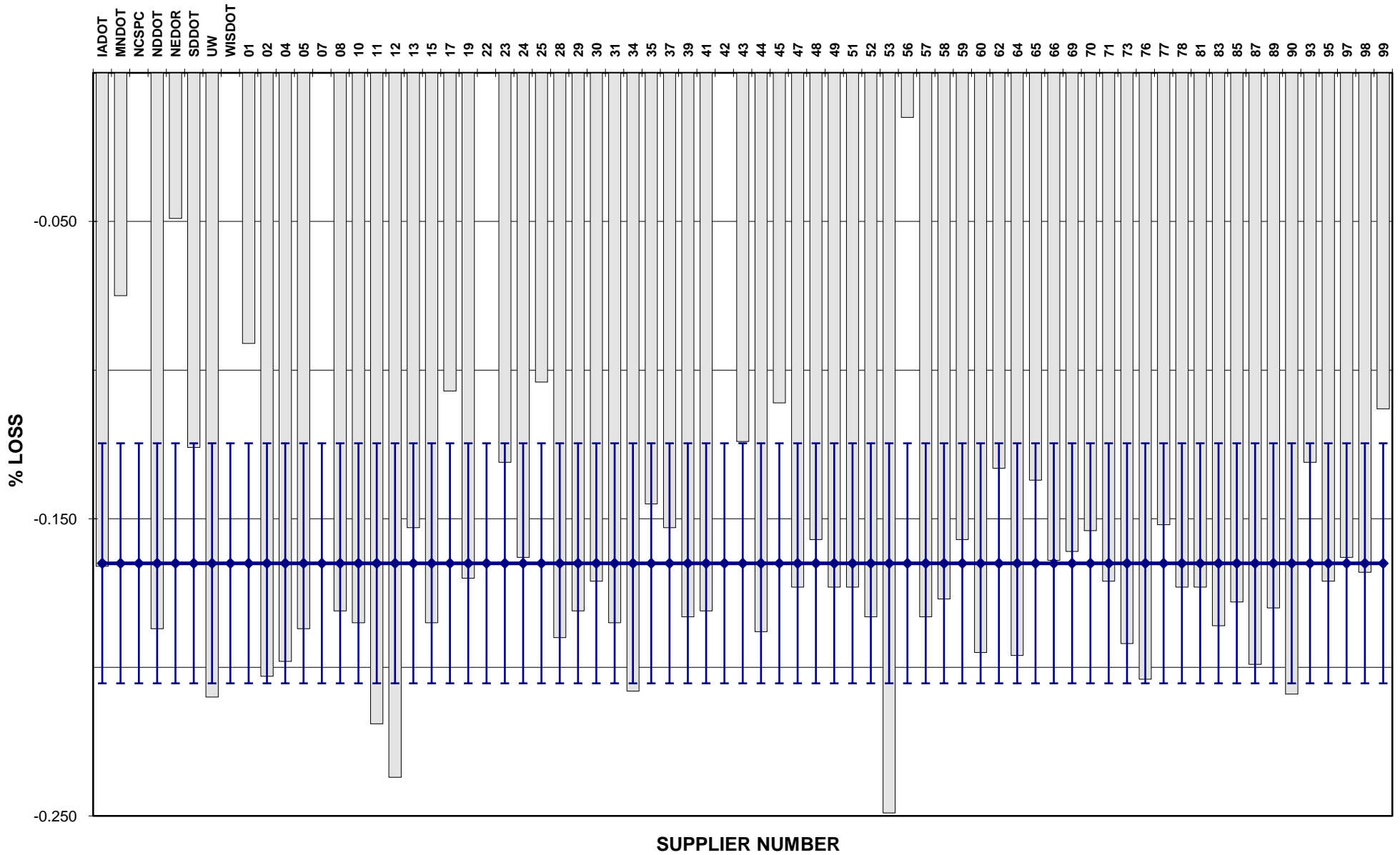


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RTFO MASS LOSS

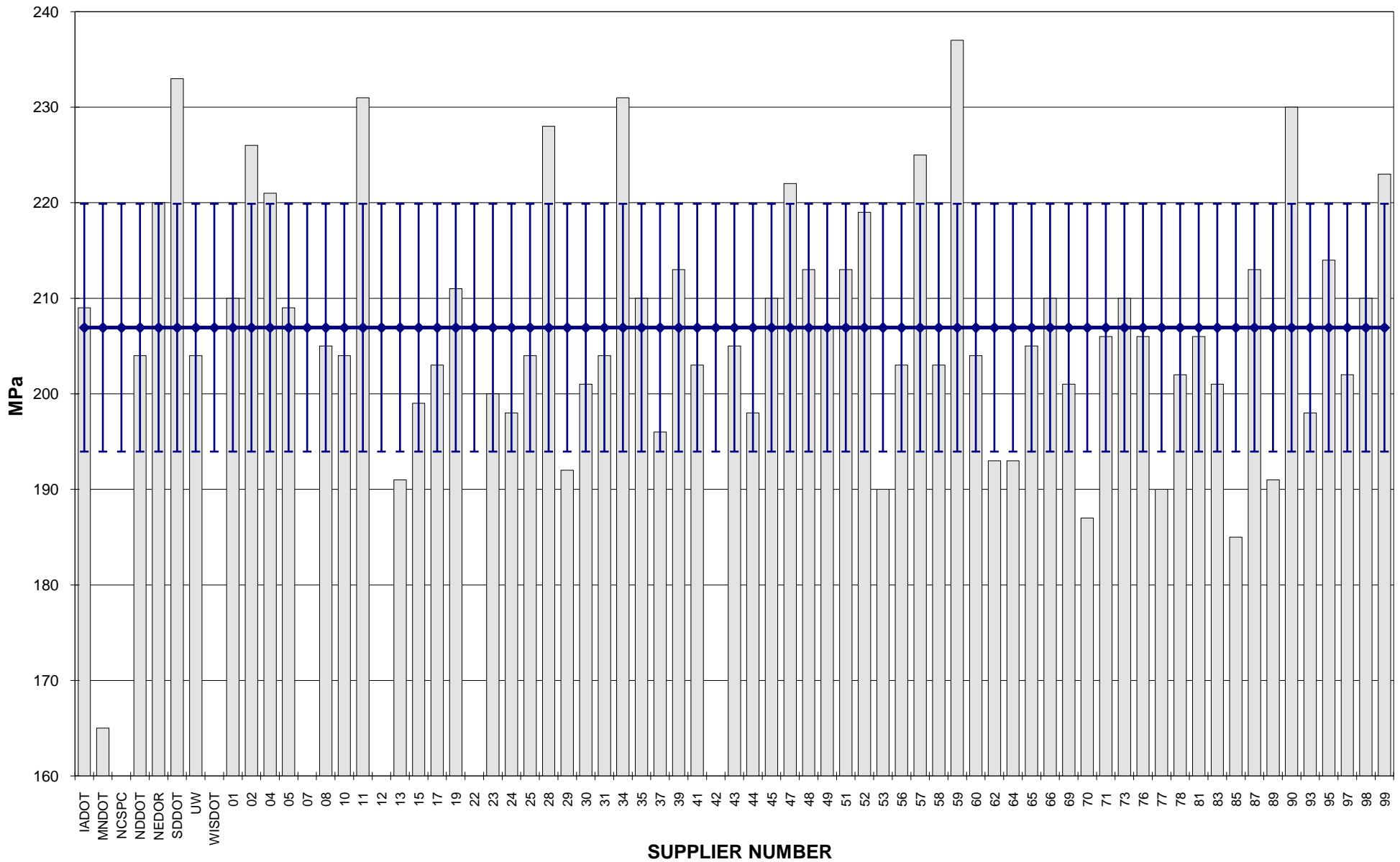


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SUMMARY A

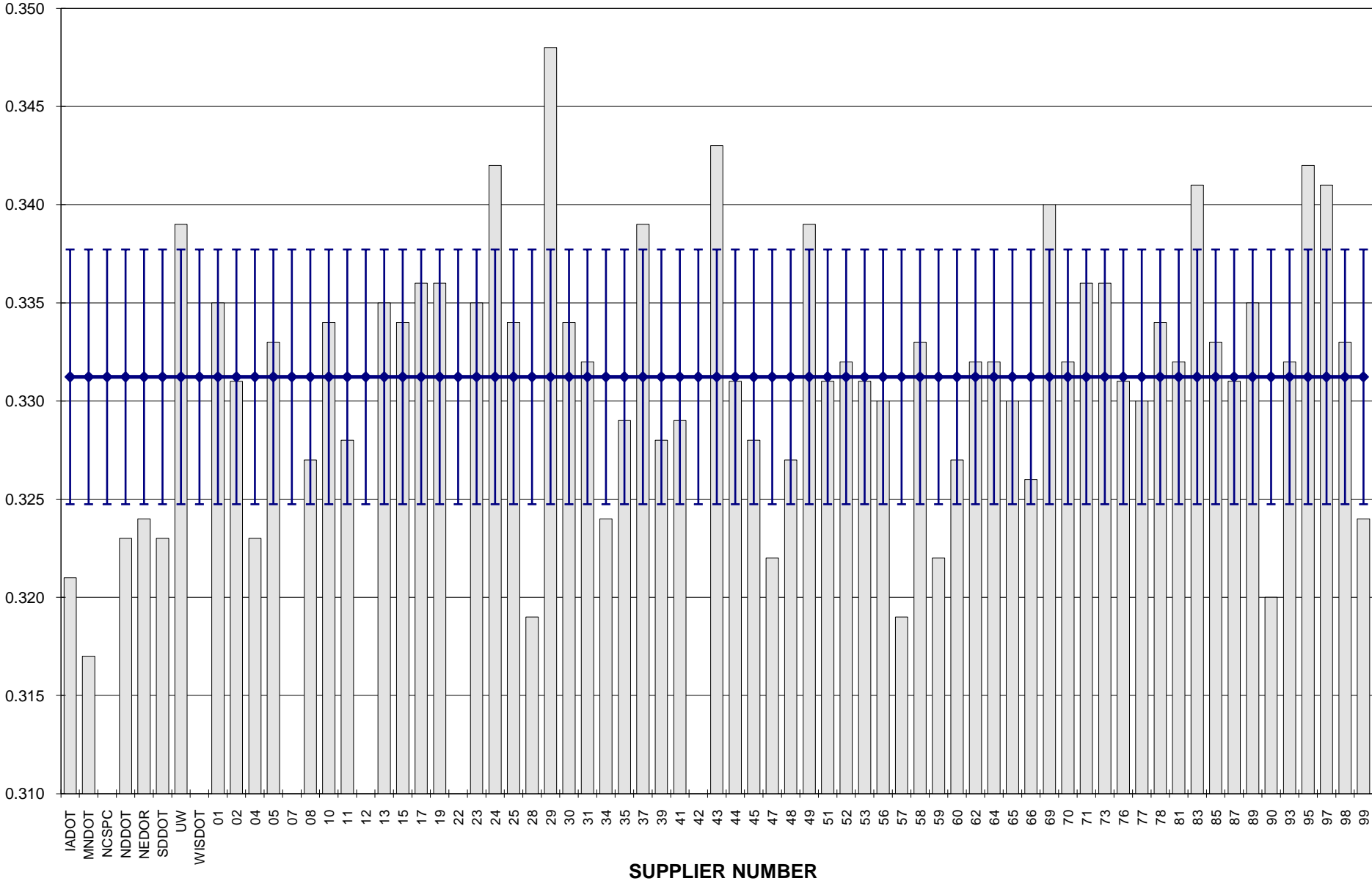
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BBR STIFFNESS



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BBR m-VALUE



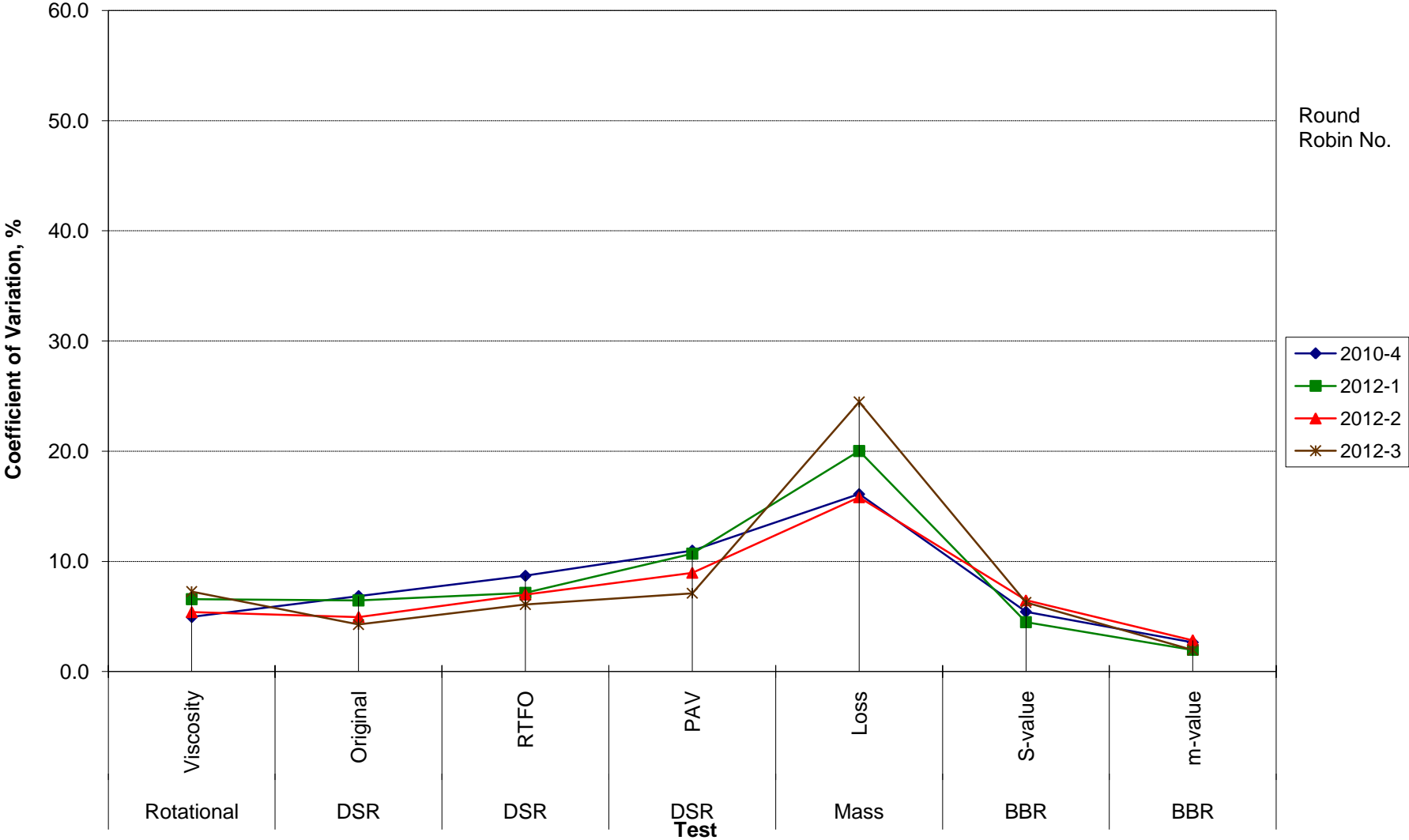
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COEFFICIENT OF VARIATION

Round Robin No.	Number of Participants	Coefficient of Variation, %							
		Rotational Viscosity	DSR Original	DSR RTFO	DSR PAV	Mass Loss	BBR S-value	BBR m-value	DTT Strain
2010-4	68	4.954	6.857	8.698	10.983	16.107	5.434	2.649	18.298
2012-1	68	6.563	6.456	7.152	10.709	20.015	4.479	1.967	10.431
2012-2	70	5.394	4.948	6.994	8.968	15.831	6.470	2.840	18.415
2012-3	66	7.252	4.265	6.090	7.110	24.470	6.268	1.959	8.761

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COEFFICIENT OF VARIATION



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STATISTICS WITH OUTLIERS REMOVED:

	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
Average	0.426	1.39	3.44	4,262	-0.169	208	0.331
Std. Dev.	0.0309	0.0593	0.1933	275.42	0.0331	11.94	0.0065
Coef. of Var.	7.252	4.265	5.627	6.462	19.550	5.752	1.959