

**COMBINED STATE BINDER GROUP ROUND ROBIN 2012-2 SUMMARY B**  
**PG 64-34**

Supplier Number	Rotational Viscosity (Pa.s) @135°C	DSR Original (kPa) @64°C	DSR RTFO (kPa) @64°C	DSR PAV (kPa) @19°C	Mass Loss (%) @163°C	BBR S-value (MPa) @-24°C	BBR m-value @-24°C
IADOT	0.724	1.02	2.32	1730	-0.627	271	0.326
MNDOT	0.700	1.07	2.54	1633	-0.602	237	0.330
NCSPC	0.698	1.08	3.16	2050	-0.874	306	0.324
NDDOT	0.688	1.05	2.45	1693	-0.708	272	0.328
NEDOR	0.601	1.02	2.47	1795	-0.614	294	0.328
SDDOT	0.713	1.05	2.56	1682	-0.544	267	0.319
UW	0.728	1.18	2.79	1975	-0.066	294	0.315
WISDOT							
07	0.744	1.08	2.43	1554	-0.665	274	0.334
12	0.694	1.06	2.58	1694	-0.852	304	0.330
29	0.709	1.06	2.66	2104	-0.822	284	0.338
35	0.720	1.02	2.55	1530	-0.616	248	0.330
37	0.778	1.18	2.58	2053	-0.720	300	0.337
42	0.601	1.04	2.55	1740	-0.776	291	0.334
43	0.672	1.04	2.41	1810	-0.633	289	0.333
49	0.697	1.01	2.38	1280	-0.628	241	0.351
60	0.743	0.97	2.54	1670	-0.812	262	0.335
65	0.700	1.12	2.36	1952	-0.648	265	0.308
69	0.745	1.06	2.46	1805	-0.662	282	0.335
70	0.695	1.04	2.72	1870	-0.628	272	0.336
77	0.712	1.09	2.65	1590	-0.613	249	0.334
83	0.735	1.07	2.43	1591	-0.652	289	0.342
95	0.755	1.06	3.10	1538	-0.640	270	0.348
A	0.695	1.03	2.53	1665	-0.659	294	0.331
B	0.699	1.03	2.79	1557	-0.680	268	0.328
C	0.716	1.02	2.55	1792	-0.616	293	0.325
E	0.719	0.99	2.67	1570	-0.710	273	0.339
F	0.745	1.04	2.36	1,739	-0.563	307	0.323
J	0.742	0.98	2.49	1866	-0.736	273	0.323
L	0.783	0.99	2.53	1719	-0.692	316	0.321
M	0.821	1.10	2.61	1788	-0.650	297	0.340
O	0.725	0.98	2.86	1,550	-0.727	269	0.358
P	0.699	0.97	2.62	1699	-0.680	283	0.339
Q	0.763	1.10	2.46	1768	-0.702	274	0.339
S	0.771	1.10	2.62	1635	-0.796	258	0.334
U	0.755	1.01	2.31	1695	-0.657	279	0.337
V	0.722	1.01	2.68	1730	-0.750	275	0.332
<b>Average</b>	0.720	1.05	2.58	1,725	-0.667	278	0.332
<b>Std. Dev.</b>	0.0428	0.0510	0.1890	168.09	0.1292	18.70	0.0096
<b>Coef. of Var.</b>	5.946	4.868	7.337	9.743	19.364	6.721	2.897

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<b>A</b>	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
19	0.710	1.03	2.65	1680	-0.624	293	0.329
51	0.716	1.03	2.57	1620	-0.713	300	0.332
97	0.682	1.02	2.49	1680	-0.667	295	0.331
98	0.670	1.03	2.39	1680	-0.633	289	0.332
Average	0.695	1.03	2.53	1,665	-0.659	294	0.331

<b>B</b>	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
01	0.697	1.02	2.70	1616	-0.684	279	0.333
17	0.700	1.06	2.75	1676	-0.658	271	0.328
45	0.700	1.02	2.92	1379	-0.698	255	0.322
Average	0.699	1.03	2.79	1,557	-0.680	268	0.328

<b>C</b>	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
28	0.713	1.00	2.50	1762	-0.654	301	0.326
66	0.719	1.02	2.57	1768	-0.621	291	0.322
90	0.716	1.02	2.52	1873	-0.576	299	0.319
99	0.717	1.05	2.62	1764	-0.611	281	0.332
Average	0.716	1.02	2.55	1792	-0.616	293	0.325

<b>E</b>	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
15	0.725	0.97	2.67	1580	-0.716	271	0.341
89	0.713	1.00	2.66	1560	-0.704	274	0.337
Average	0.719	0.99	2.67	1570	-0.710	273	0.339

<b>F</b>	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
02	0.756	1.05	2.41	1662	-0.515	302	0.318
11	0.741	1.02	2.36	1851	-0.514	303	0.322
34	0.744	1.03	2.35	1805	-0.650	313	0.320
48	0.710	1.05	2.16	1753	-0.569	308	0.325
56	0.746	1.03	2.41	1633	-0.587	308	0.327
62	0.772	1.04	2.49	1731	-0.542	305	0.327
Average	0.745	1.04	2.36	1,739	-0.563	307	0.323

<b>J</b>	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
05	0.744	0.97	2.45	1902	-0.730	269	0.323
08	0.750	0.96	2.50	1778	-0.733	264	0.325
10	0.731	0.97	2.51	1804	-0.753	275	0.324
22	0.738	1.01	2.55	1992	-0.720	279	0.322
31	0.744	0.97	2.48	1814	-0.734	268	0.323
39	0.744	0.99	2.42	1899	-0.751	277	0.322
41	0.744	0.99	2.49	1741	-0.721	262	0.321
44	0.738	0.98	2.46	1917	-0.739	284	0.323
52	0.738	0.98	2.52	1999	-0.727	279	0.322
87	0.744	0.99	2.50	1810	-0.747	276	0.322
Average	0.742	0.98	2.49	1866	-0.736	273	0.323

<b>L</b>	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
25	0.761	1.01	2.75	1930	-0.813	291	0.327
59	0.804	0.97	2.30	1508	-0.571	341	0.314
Average	0.783	0.99	2.53	1719	-0.692	316	0.321

<b>M</b>	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
04	0.820	1.13	2.61	1796	-0.649	296	0.341
47	0.821	1.10	2.60	1805	-0.648	297	0.338
57	0.823	1.08	2.61	1763	-0.652	297	0.340
Average	0.821	1.10	2.61	1788	-0.650	297	0.340

<b>O</b>	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
76	0.730	0.98	2.97	1520	-0.688	273	0.351
85	0.720	0.98	2.74	1580	-0.765	265	0.364
Average	0.725	0.98	2.86	1550	-0.727	269	0.358

<b>P</b>	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
30	0.695	0.95	2.49	1790	-0.695	283	0.342
71	0.702	0.97	2.66	1483	-0.671	281	0.339
73	0.700	0.98	2.70	1824	-0.674	284	0.336
Average	0.699	0.97	2.62	1699	-0.680	283	0.339

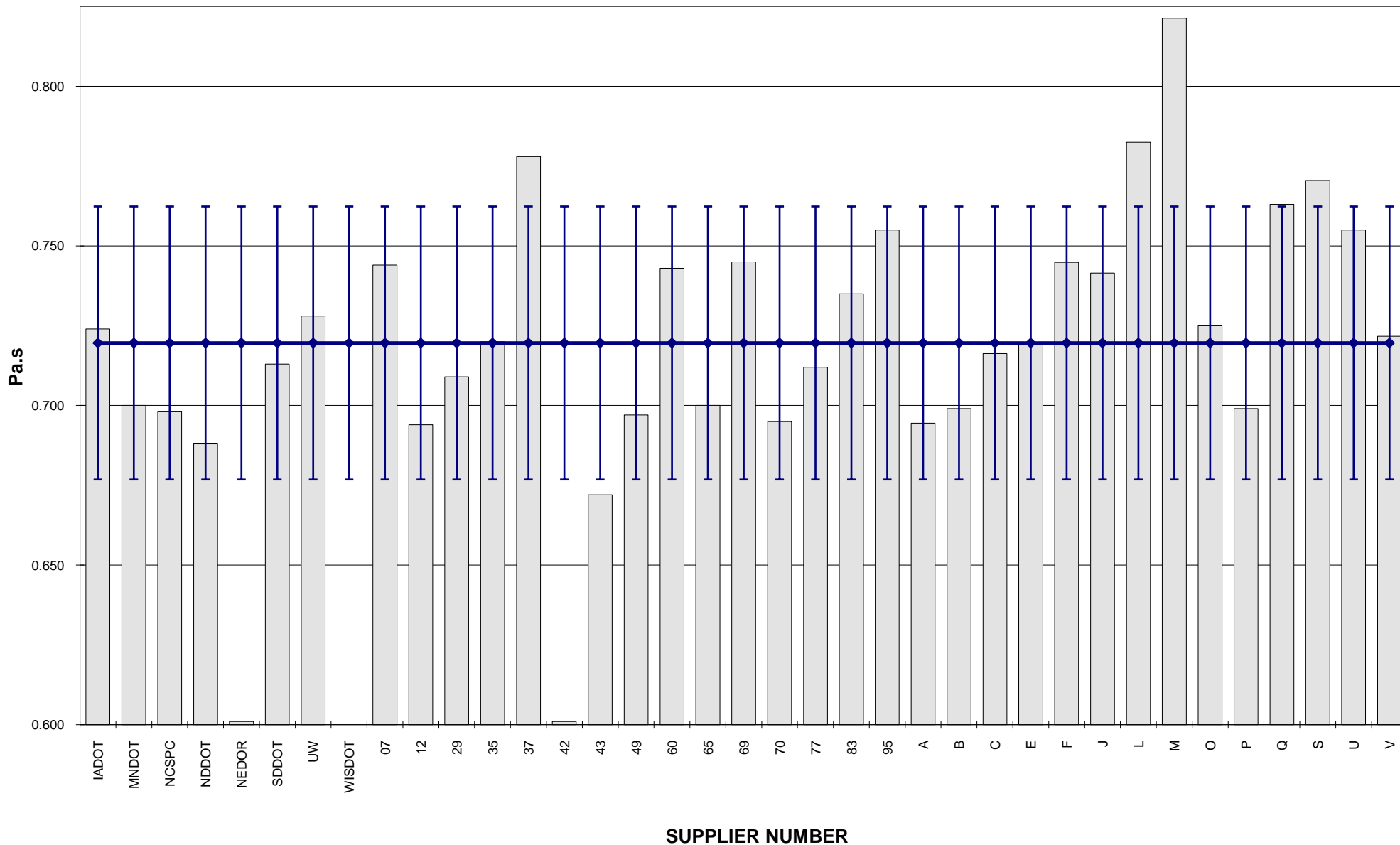
<b>Q</b>	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
23	0.768	1.05	2.64	1763	-0.695	269	0.335
93	0.758	1.15	2.28	1773	-0.709	278	0.342
Average	0.763	1.10	2.46	1768	-0.702	274	0.339

<b>S</b>	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
53	0.765	1.04	2.53	1740	-0.783	258	0.335
64	0.776	1.16	2.70	1530	-0.808	257	0.332
Average	0.771	1.10	2.62	1635	-0.796	258	0.334

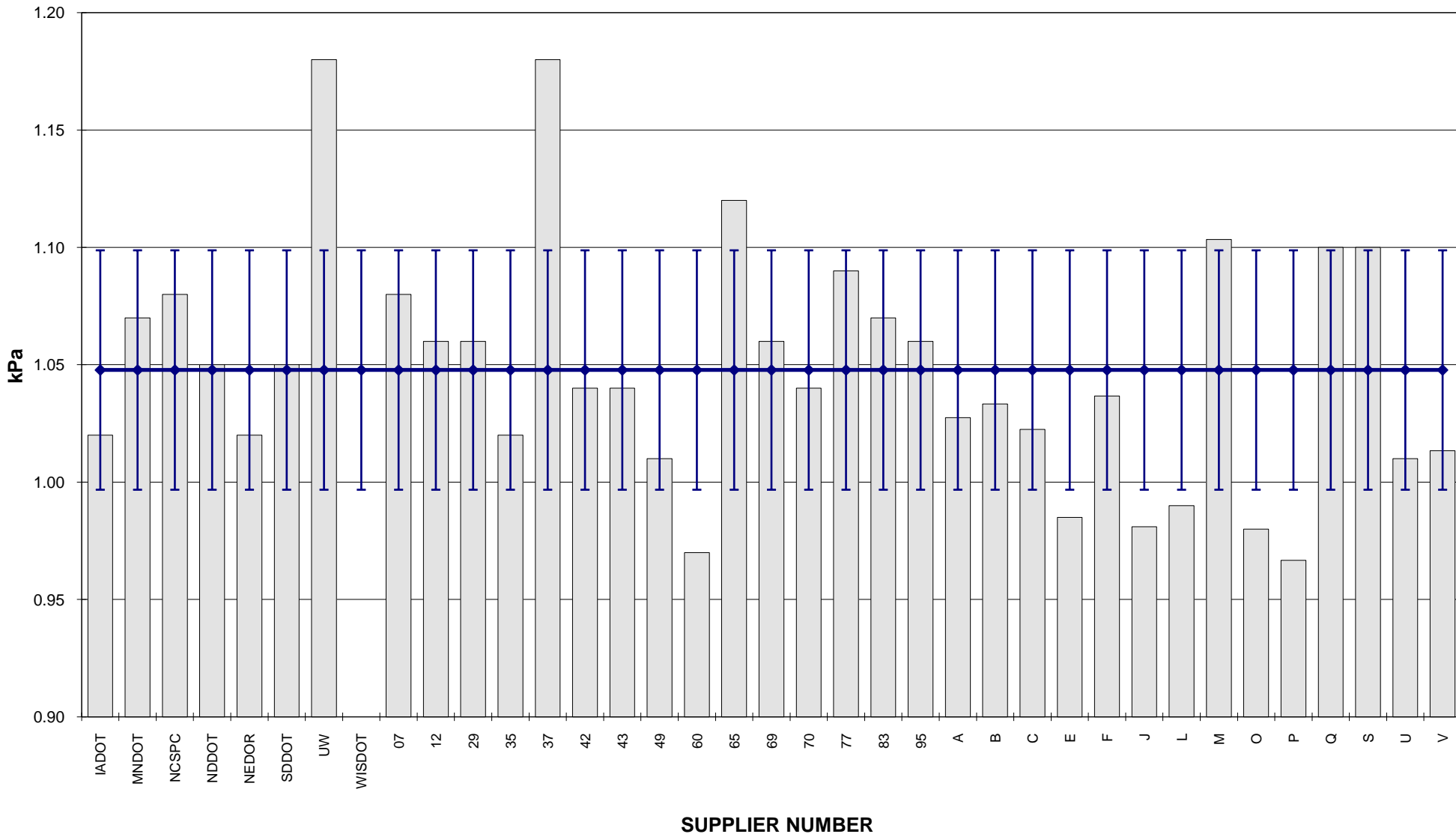
<b>U</b>	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
13	0.750	1.01	2.34	1710	-0.648	288	0.337
24	0.760	1.01	2.28	1680	-0.666	270	0.336
Average	0.755	1.010	2.310	1695.000	-0.657	279.000	0.337

<b>V</b>	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value
58	0.725	1.02	2.70	1710	-0.750	276	0.332
78	0.725	1.00	2.70	1770	-0.750	273	0.330
81	0.715	1.02	2.65	1710	-0.750	277	0.334
Average	0.722	1.01	2.68	1730	-0.750	275	0.332

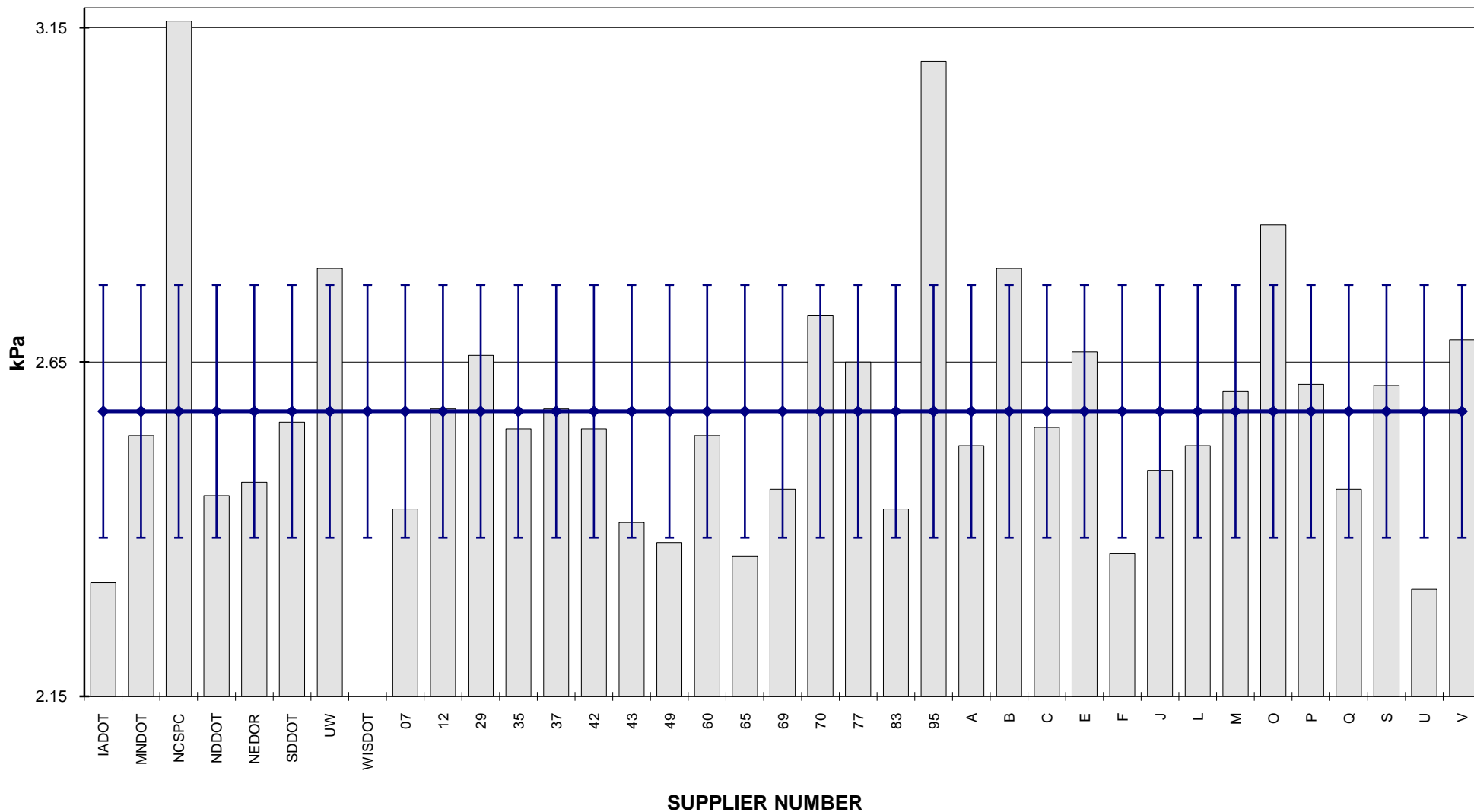
**COMBINED STATE BINDER GROUP ROUND ROBIN 2012-2**  
**SUMMARY B**  
**PG 64-34**  
**ROTATIONAL VISCOSITY**



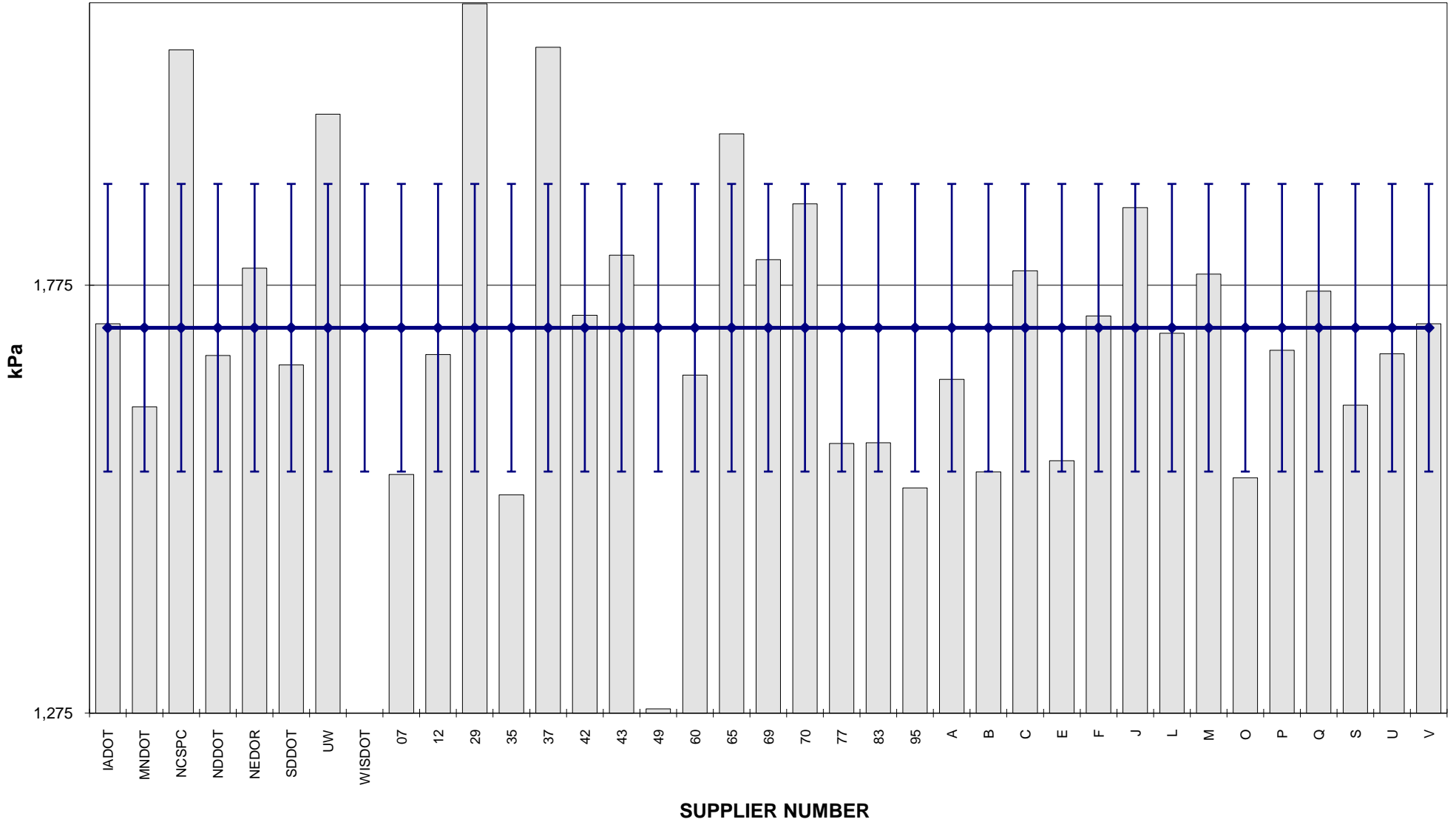
**COMBINED STATE BINDER GROUP ROUND ROBIN 2012-2  
SUMMARY B  
PG 64-34  
DSR - ORIGINAL**



**COMBINED STATE BINDER GROUP ROUND ROBIN 2012-2**  
**SUMMARY B**  
**PG 64-34**  
**DSR - RTFO**

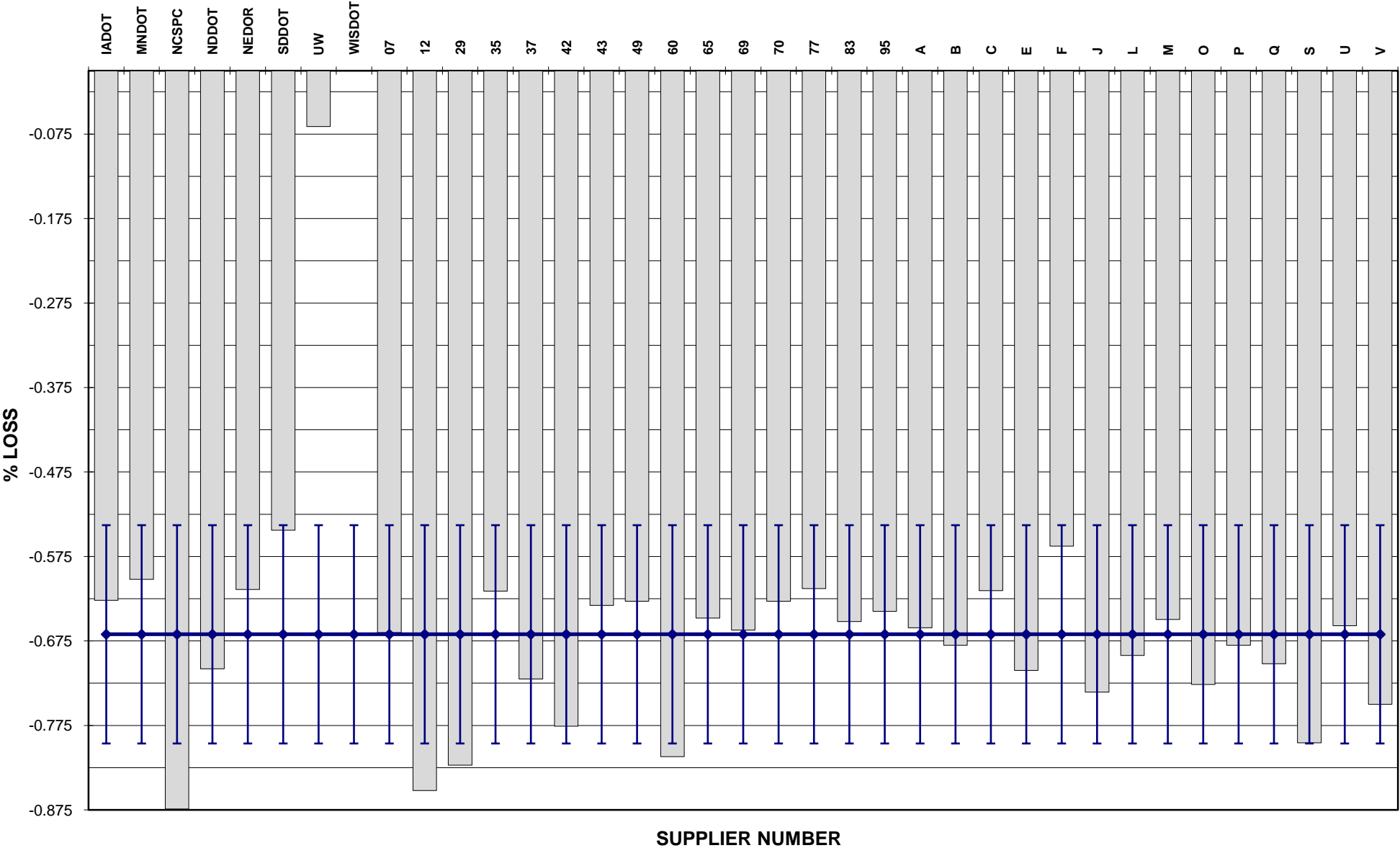


**COMBINED STATE BINDER GROUP ROUND ROBIN 2012-2**  
**SUMMARY B**  
**PG 64-34**  
**DSR - PAV**

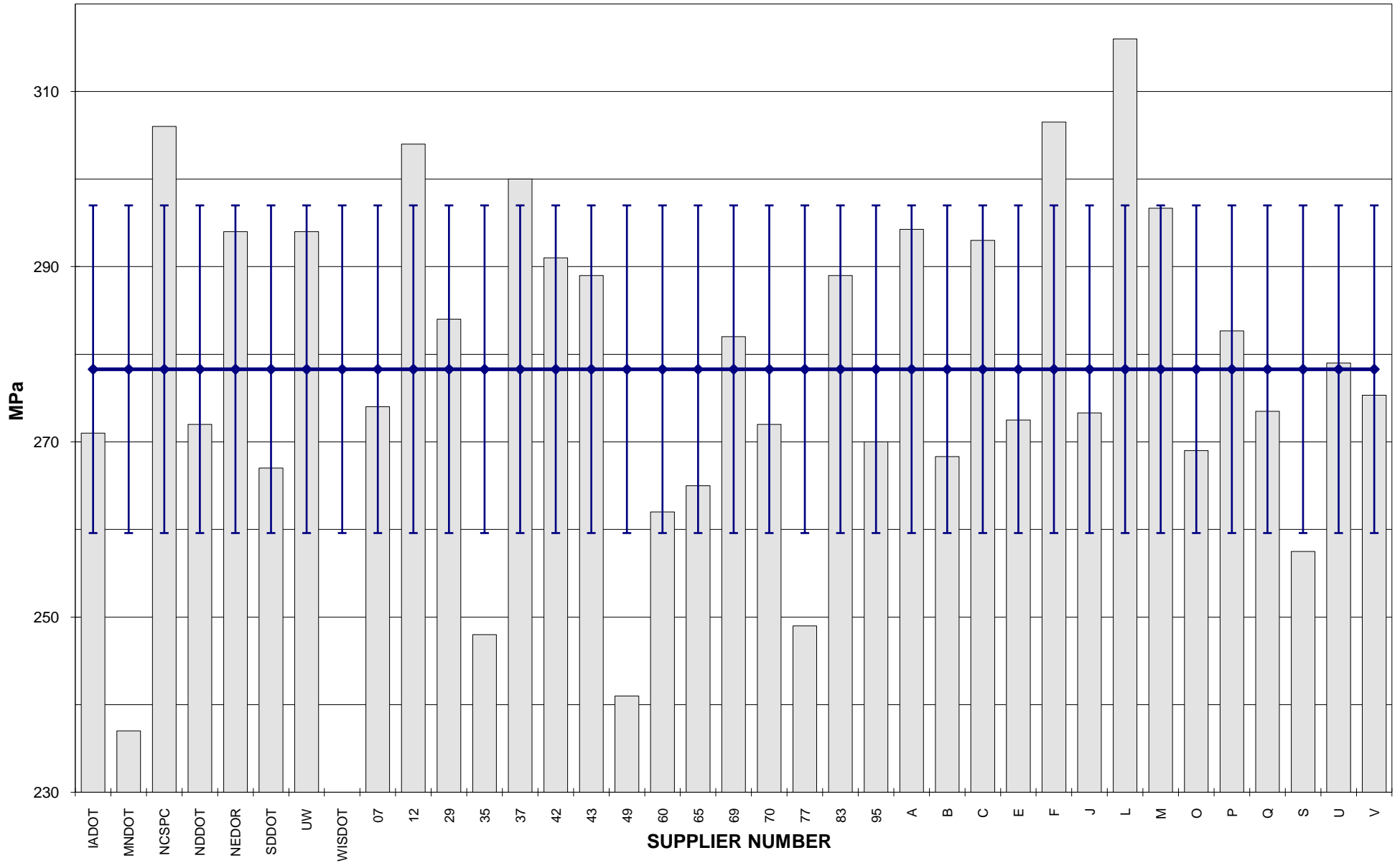


**COMBINED STATE BINDER GROUP ROUND ROBIN 2012-2  
SUMMARY B  
PG 64-34**

**RTFO MASS LOSS**



**COMBINED STATE BINDER GROUP ROUND ROBIN 2012-2**  
**SUMMARY B**  
**PG 64-34**  
**BBR STIFFNESS**





**COMBINED STATE BINDER GROUP ROUND ROBIN 2012-2**  
**SUMMARY B**  
**PG 64-34**  
**BBR m-VALUE**

