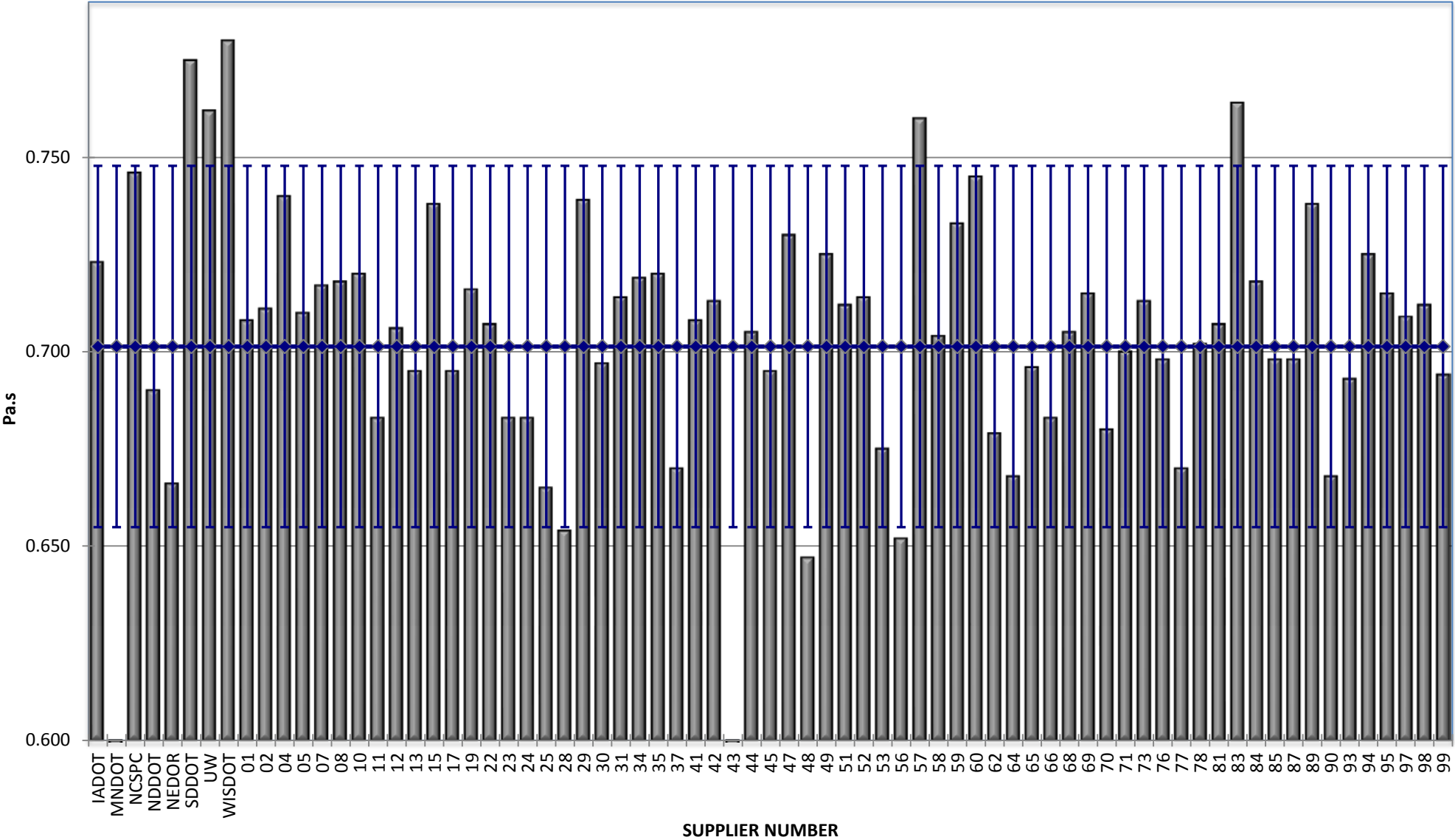
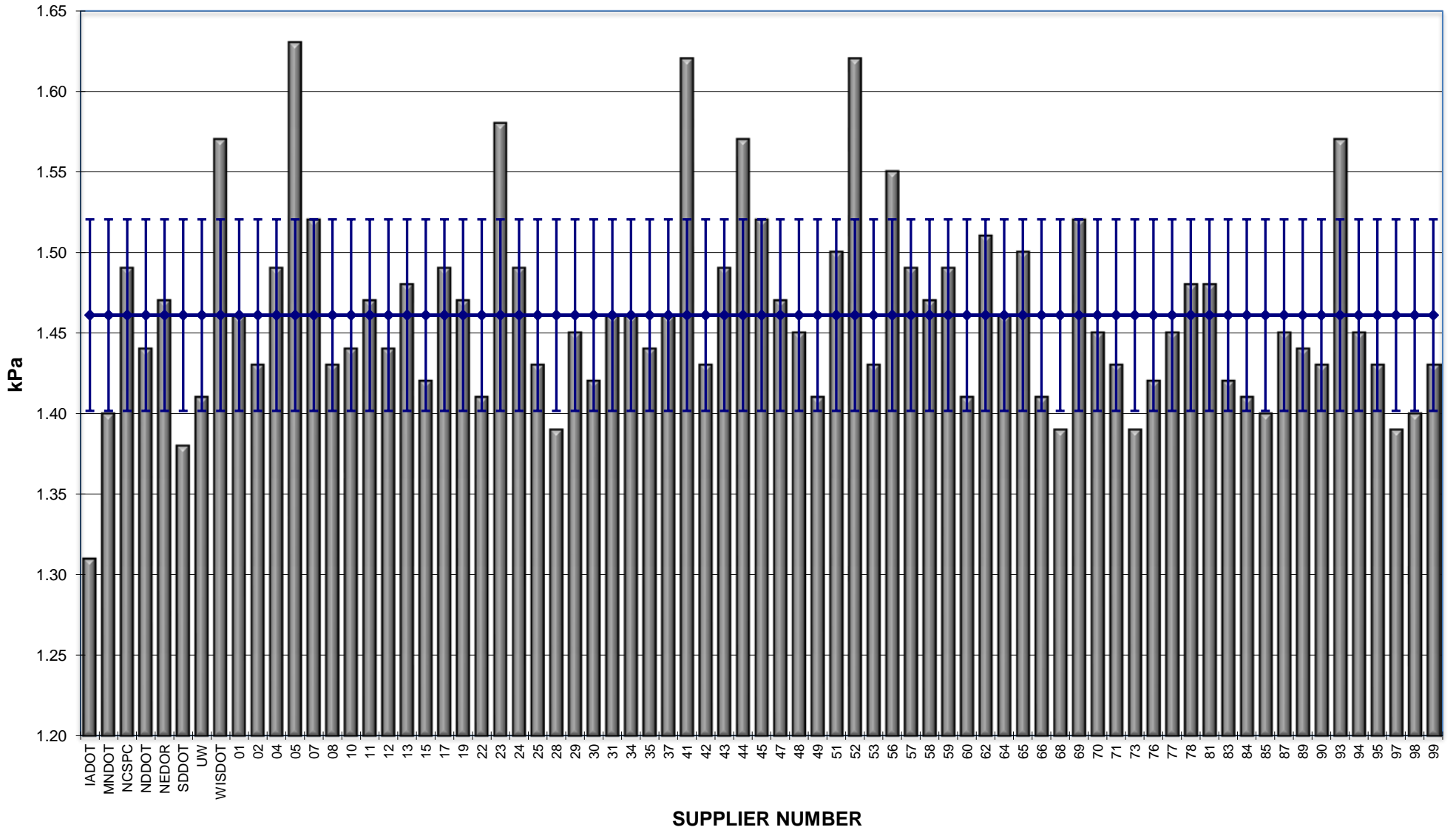


COMBINED STATE BINDER GROUP ROUND ROBIN 2014-3
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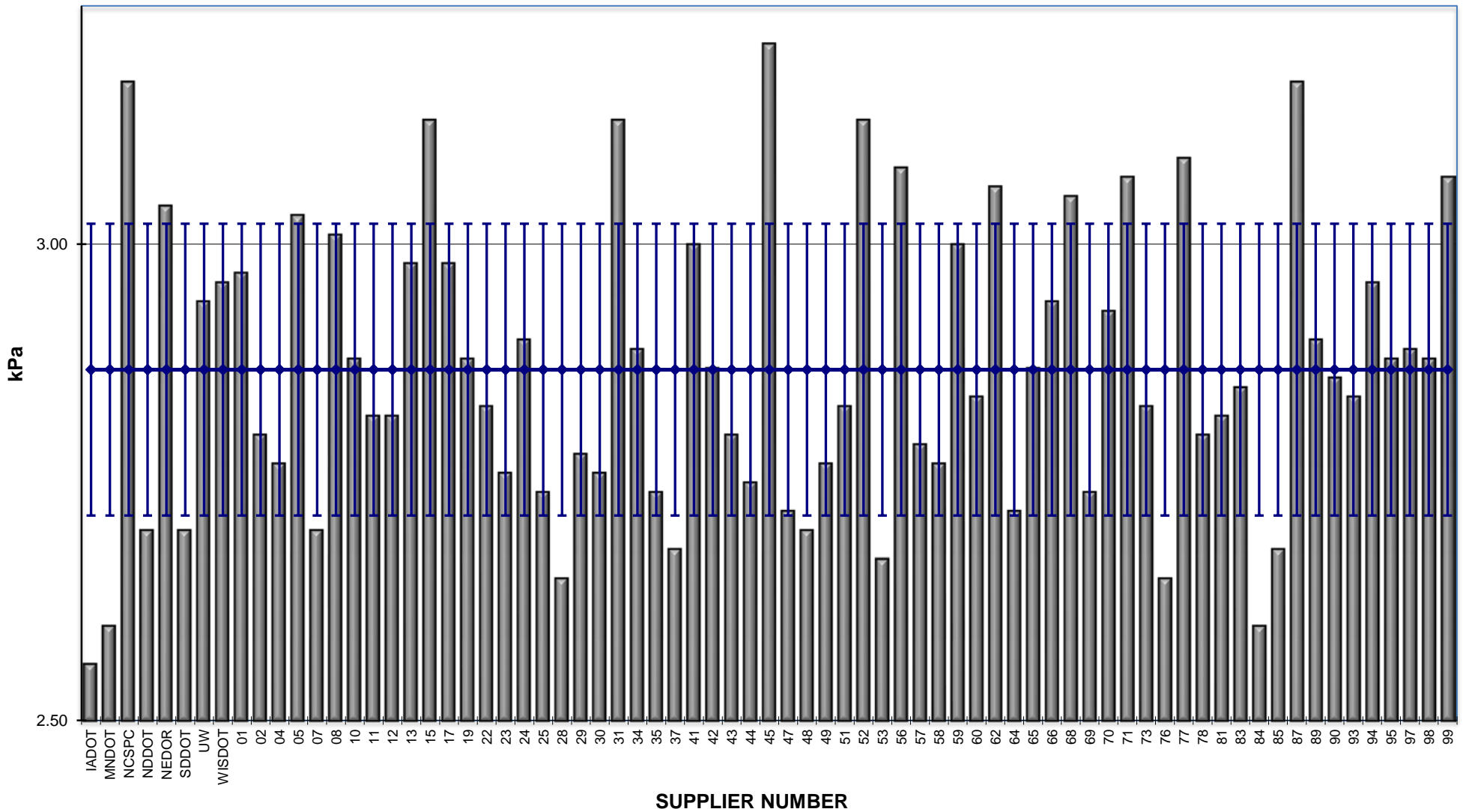
ROTATIONAL VISCOSITY



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DSR - ORIGINAL

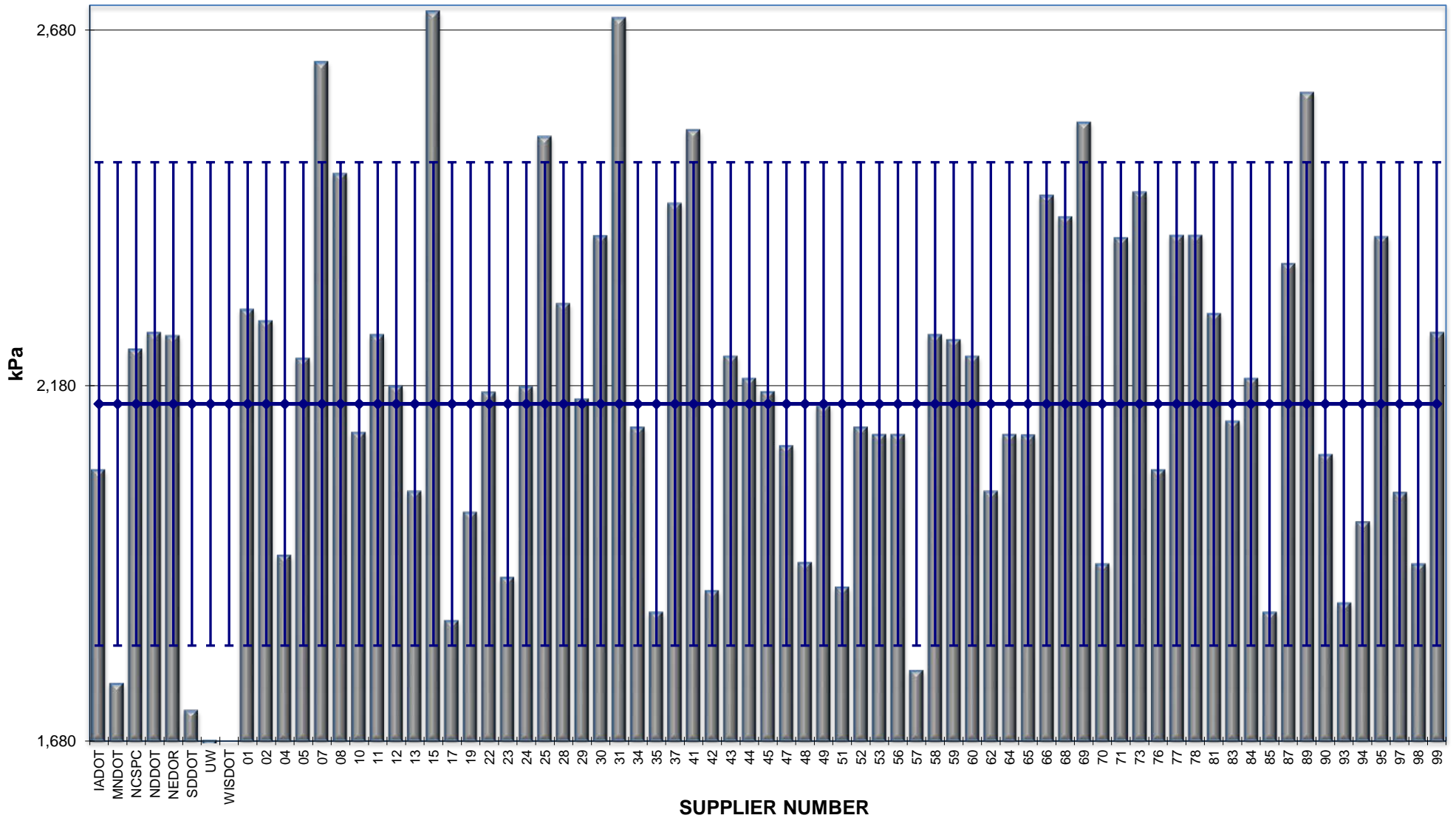


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DSR - RTFO



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DSR - PAV

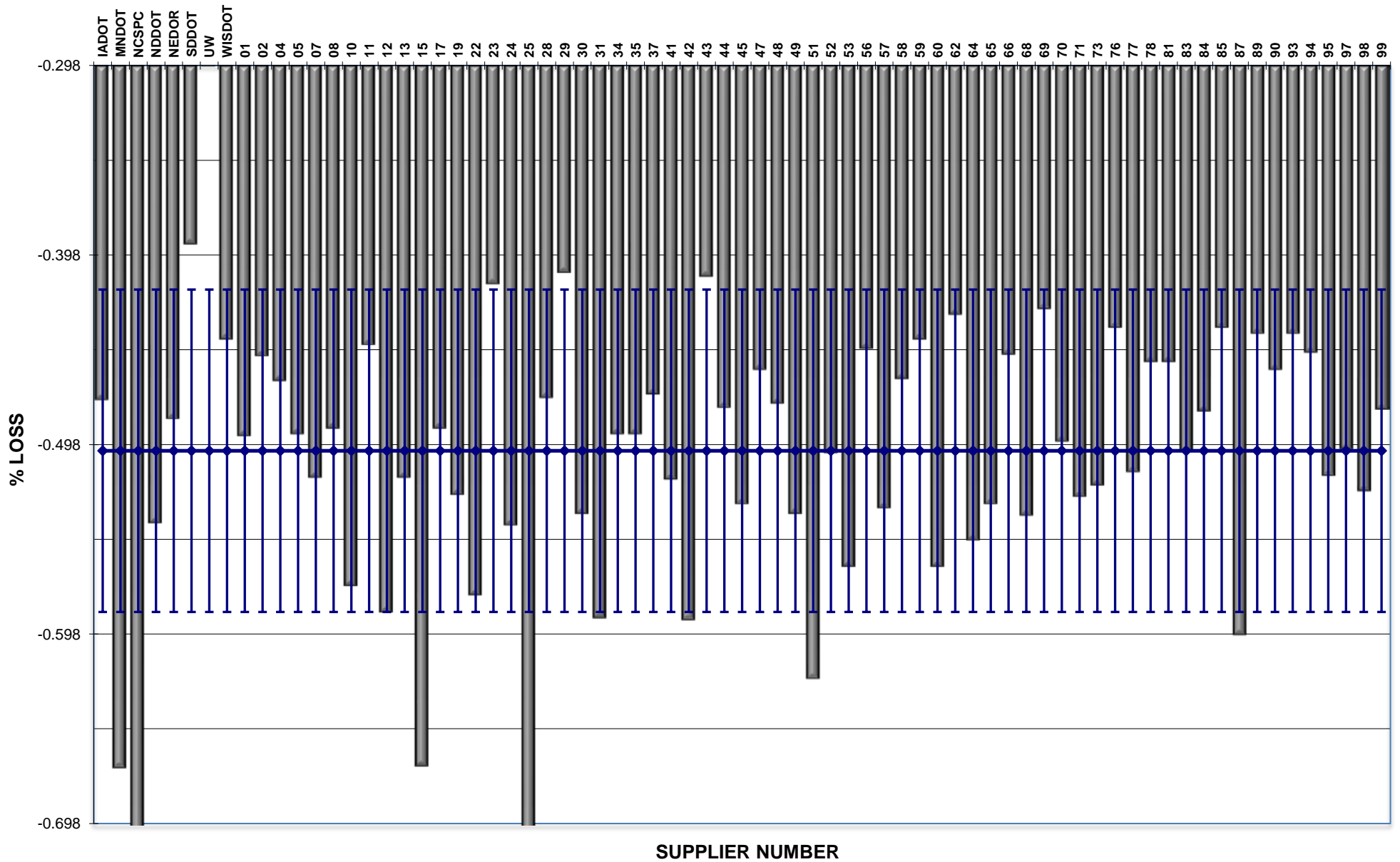


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RTFO MASS LOSS

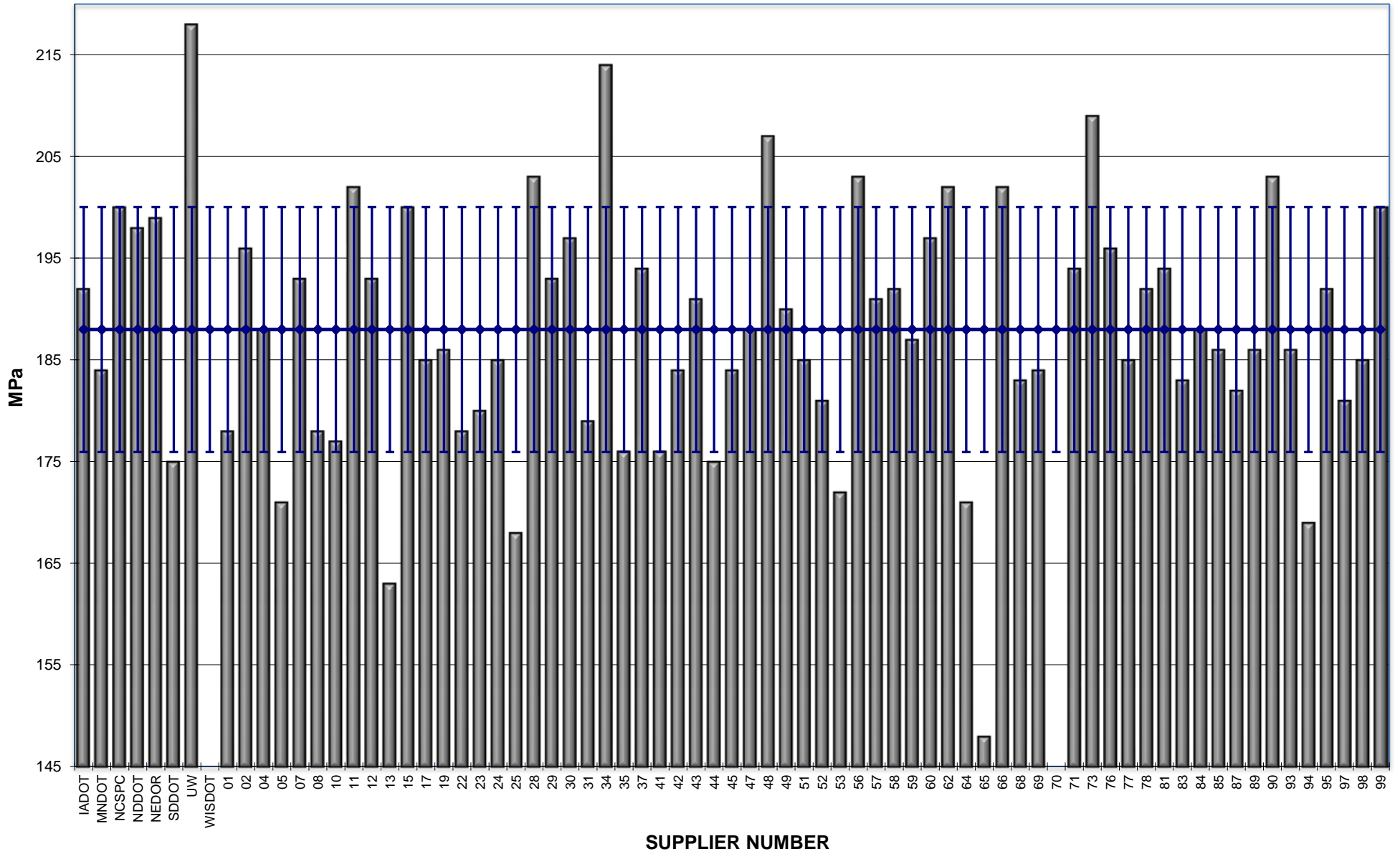


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BBR STIFFNESS

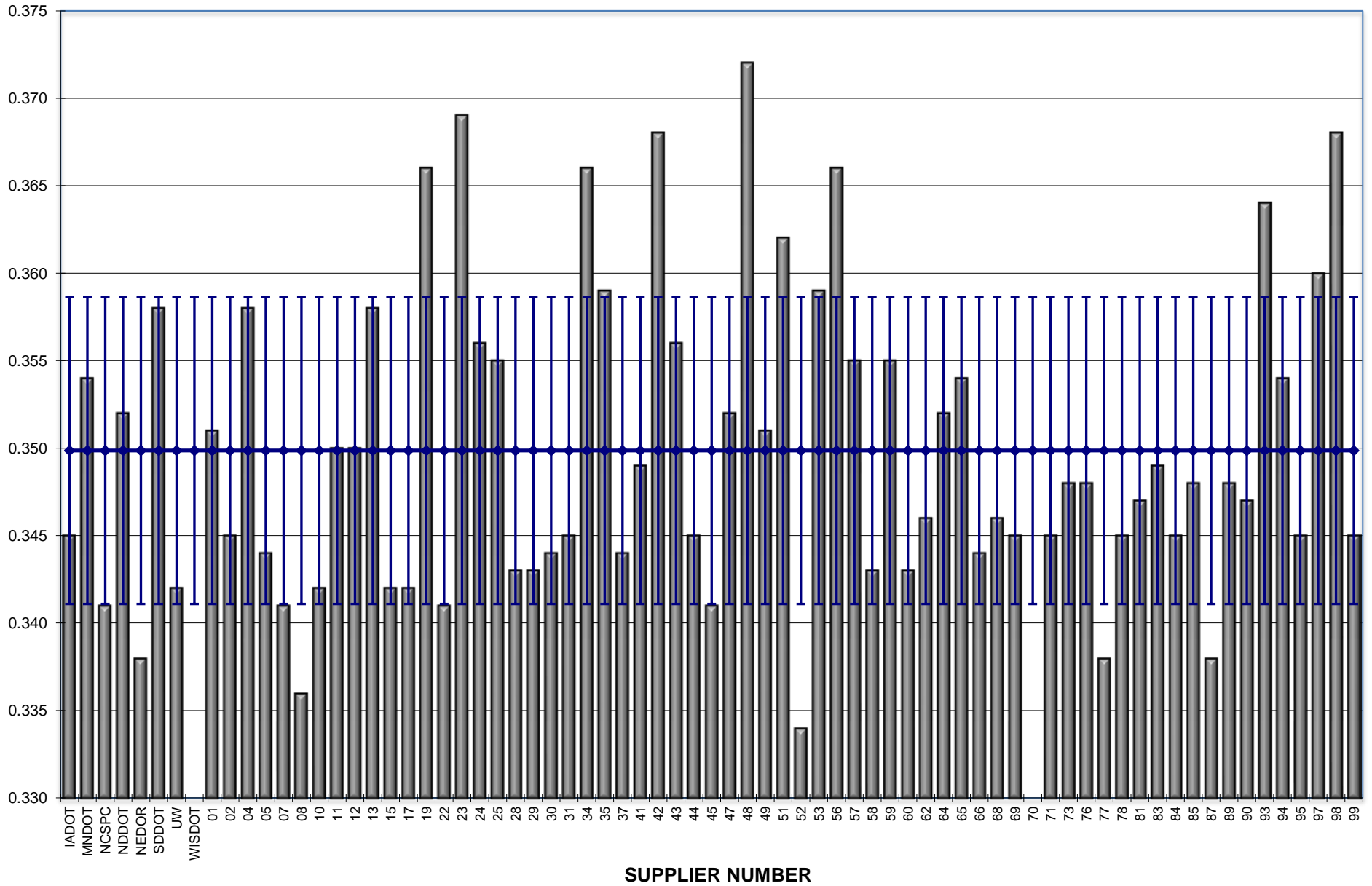


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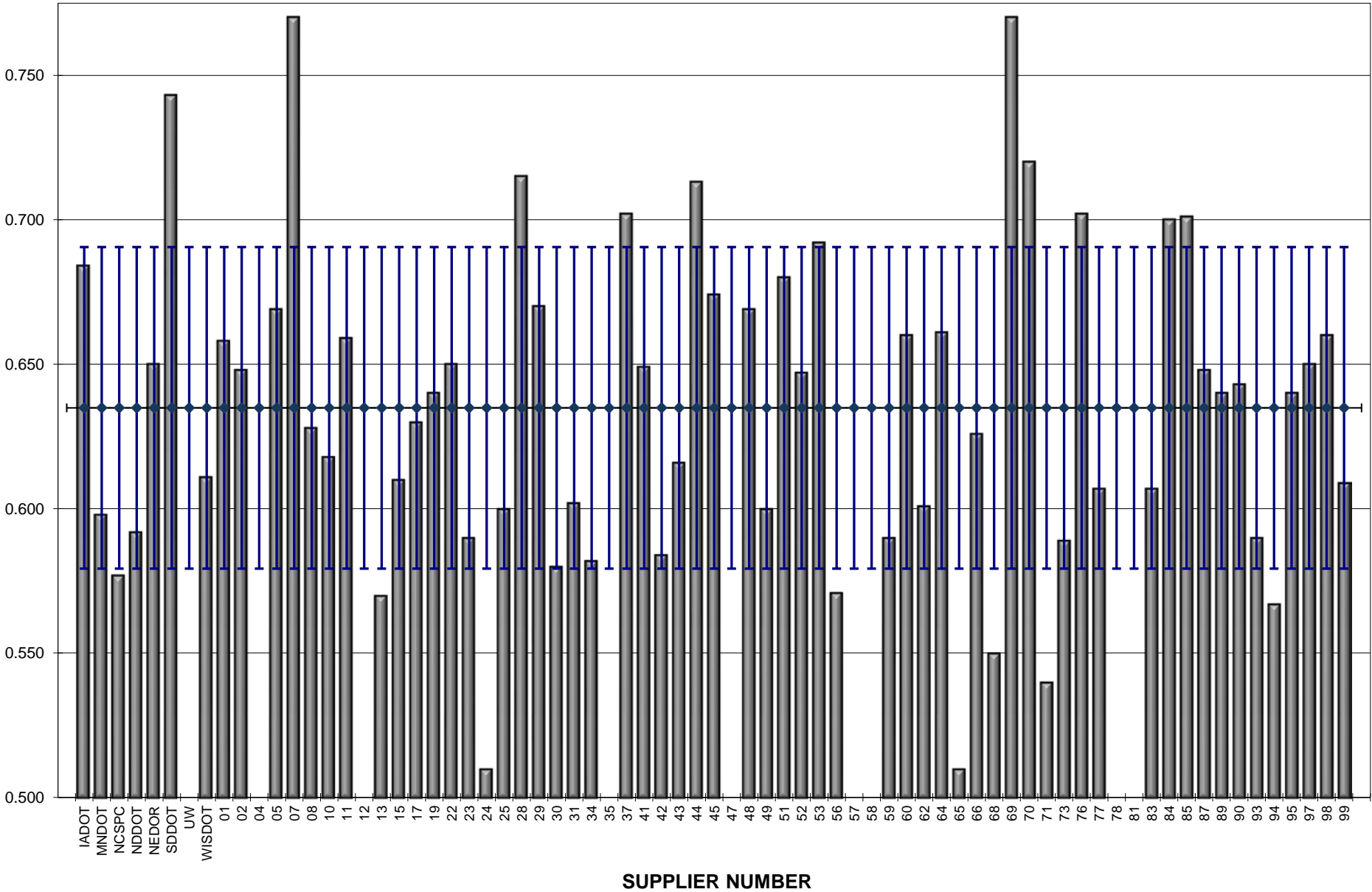
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BBR m-VALUE



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Jnr@100 Pa

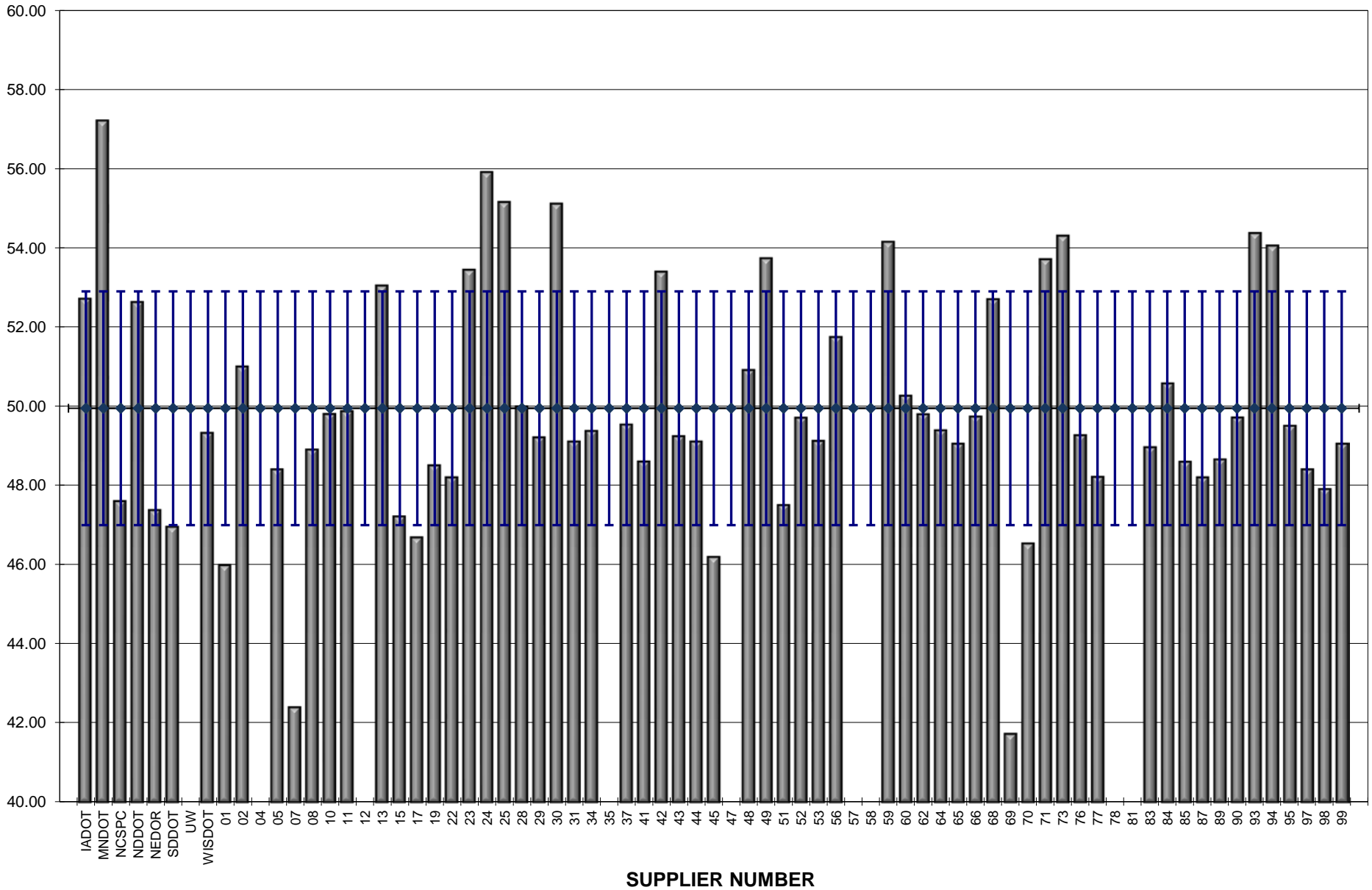


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%Recovery@100 Pa

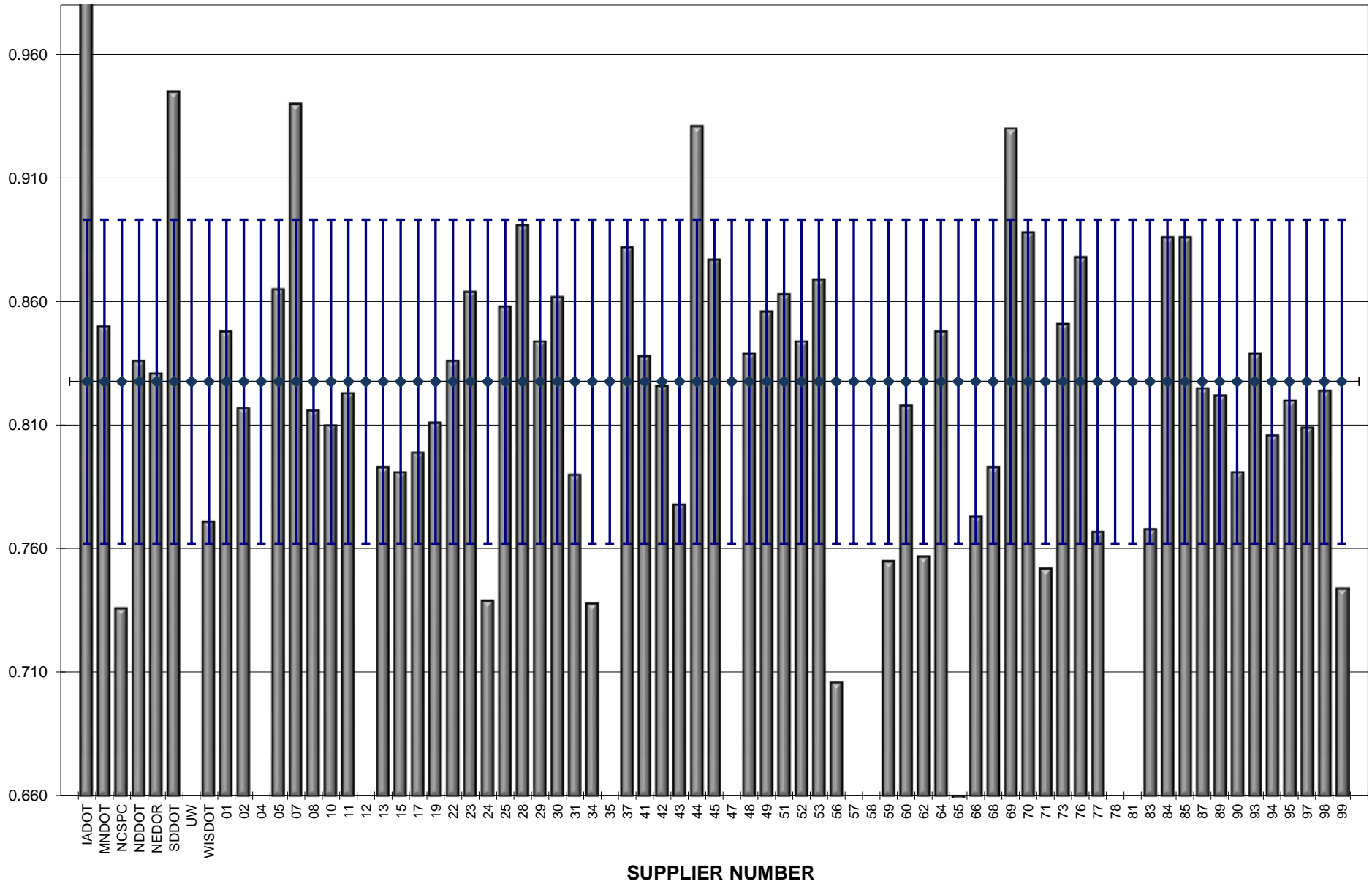


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SUMMARY A

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Jnr@3200 Pa

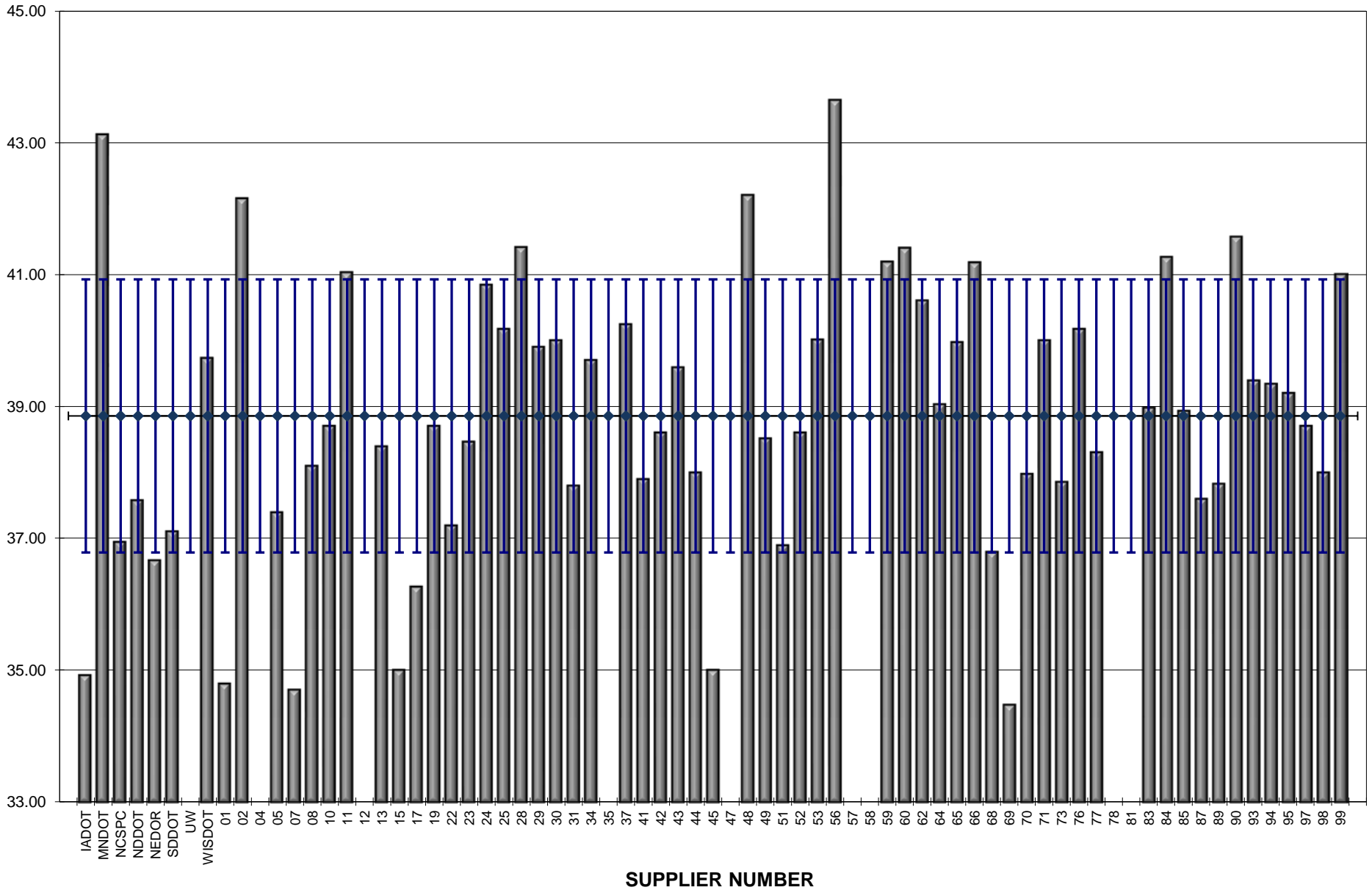


COMBINED STATE BINDER GROUP ROUND ROBIN 2014-3

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%Recovery@3200 Pa



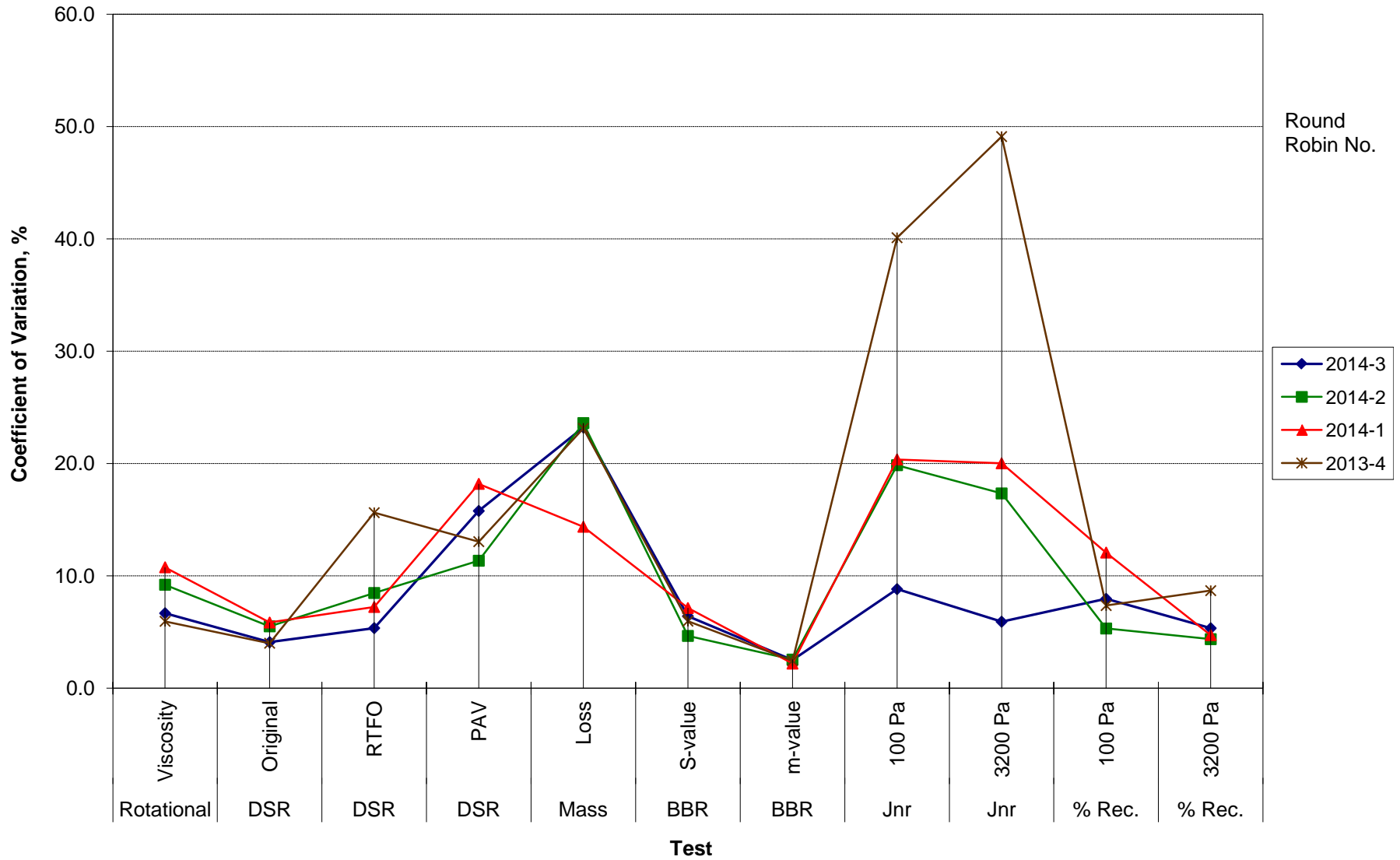
COMBINED STATE BINDER GROUP ROUND ROBIN 2014-3
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COEFFICIENT OF VARIATION

R R No.	Number of Participants	Coefficient of Variation, %											
		Rotational Viscosity	DSR Original	DSR RTFO	DSR PAV	Mass Loss	BBR S-value	BBR m-value	Jnr 100 Pa	Jnr 3200 Pa	% Rec. 100 Pa	% Rec. 3200 Pa	DTT Strain
2014-3	73	6.670	4.095	5.347	15.777	23.221	6.408	2.506	8.817	5.915	7.950	5.335	37.884
2014-2	52	9.206	5.504	8.472	11.343	23.598	4.651	2.543	19.850	17.336	5.312	4.362	30.979
2014-1	72	10.760	5.843	7.228	18.189	14.368	7.133	2.186	20.363	20.016	12.070	4.720	8.048
2013-4	72	5.951	4.000	15.623	13.043	23.130	5.964	2.446	40.101	49.104	7.354	8.681	0.000

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COEFFICIENT OF VARIATION



**COMBINED STATE BINDER GROUP ROUND ROBIN 2014-3
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STATISTICS WITH OUTLIERS REMOVED:

	Rotational Viscosity (Pa.s) @135°C	DSR Original (kPa) @70°C	DSR RTFO (kPa) @70°C	DSR PAV (kPa) @25°C	Mass Loss (%) @163°C	BBR S-value (MPa) @-18°C	BBR m-value @-18°C	Jnr @ 100Pa @ 58°C	% RECOV. @ 100Pa @58° C	Jnr @ 3200Pa @ 58°C	% RECOV. @ 3200Pa @ 58° C
Average	0.707	1.46	2.87	2,189	-0.500	189	0.350	0.636	49.94	0.827	38.86
Std. Dev.	0.0281	0.0598	0.1534	226.36	0.0588	11.11	0.0088	0.0561	2.9544	0.0525	2.0728
Coef. of Var.	3.971	4.095	5.347	10.342	11.757	5.886	2.506	8.817	5.915	6.343	5.335