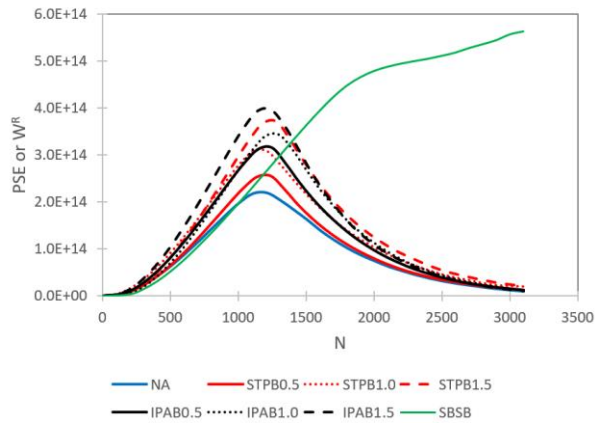
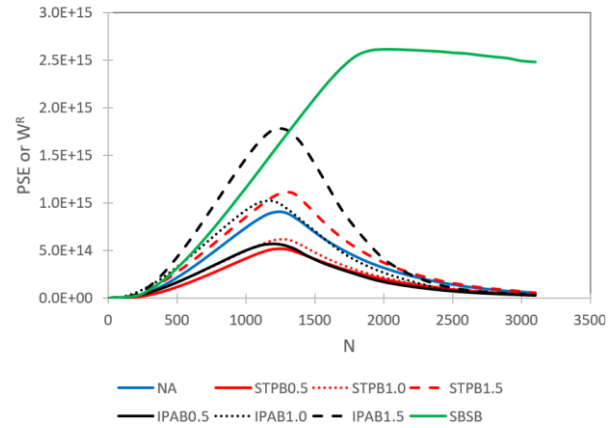


Supplementary files.

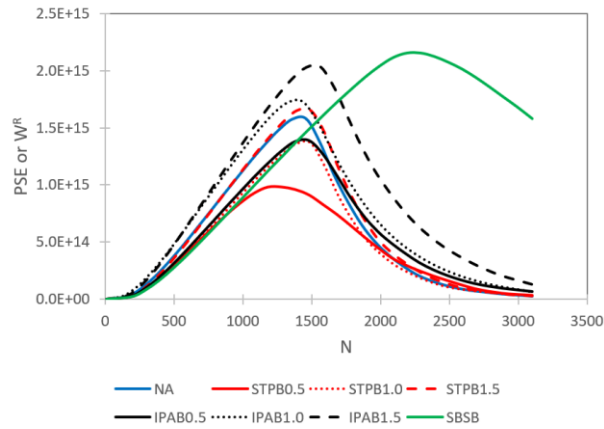
a) PSE vs N (Temperature 25°C - unaged bitumens)



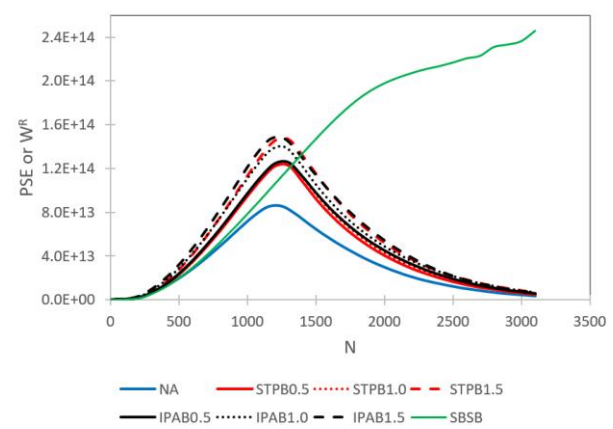
b) PSE vs N (Temperature 25°C - RTFO aged bitumens)



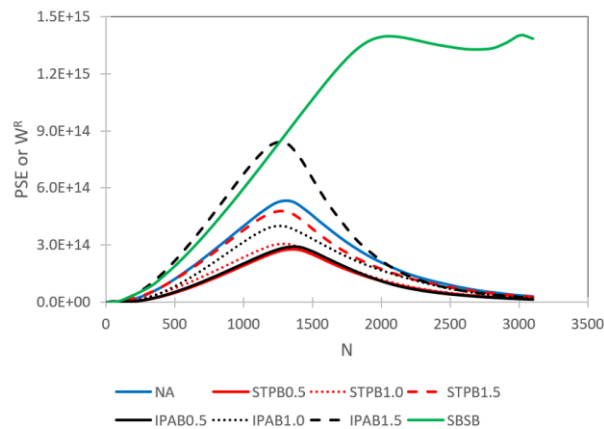
c) PSE vs N (Temperature 25°C - PAV aged bitumens)



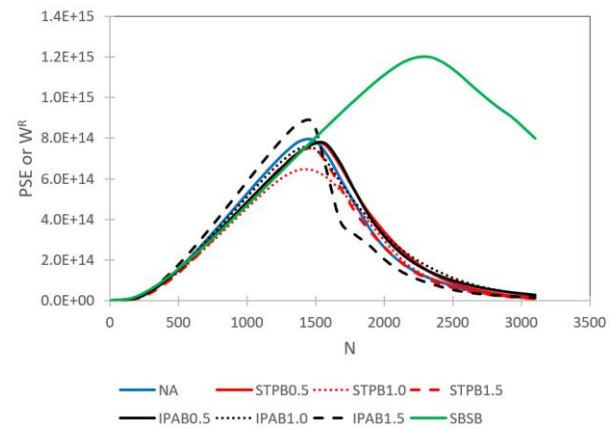
d) PSE vs N (Temperature 28°C - unaged bitumens)



e) PSE vs N (Temperature 28°C - RTFO aged bitumens)



f) PSE vs N (Temperature 28°C - PAV aged bitumens)



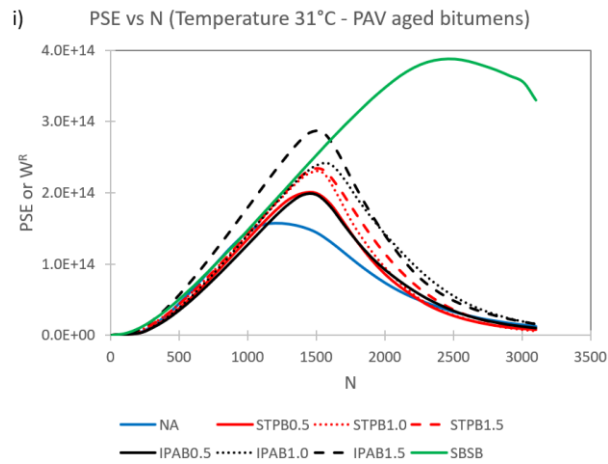
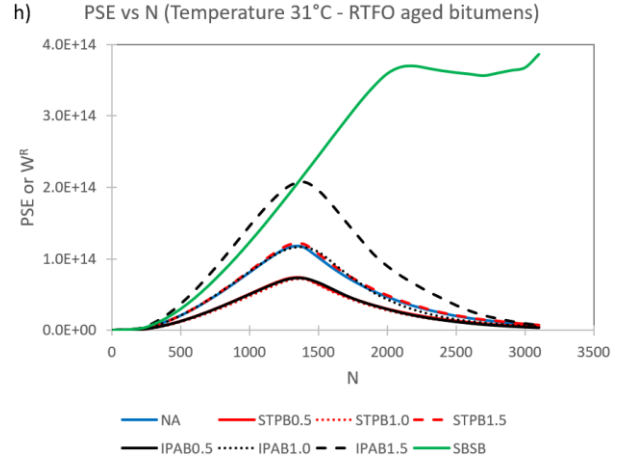
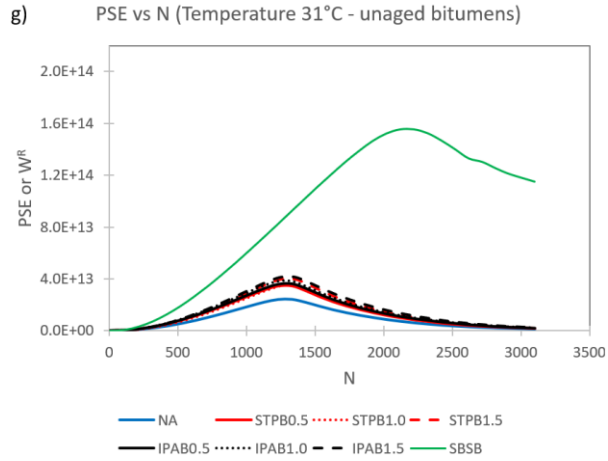
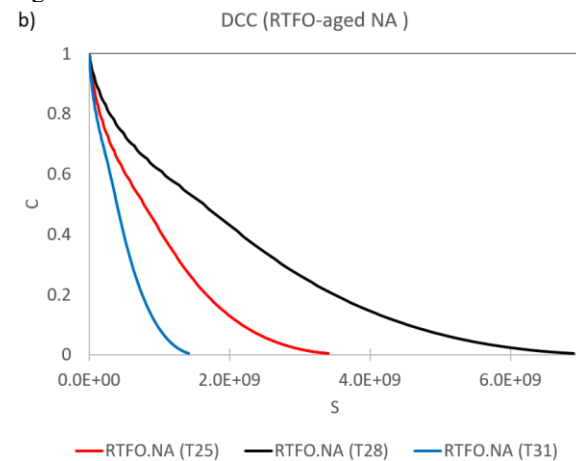
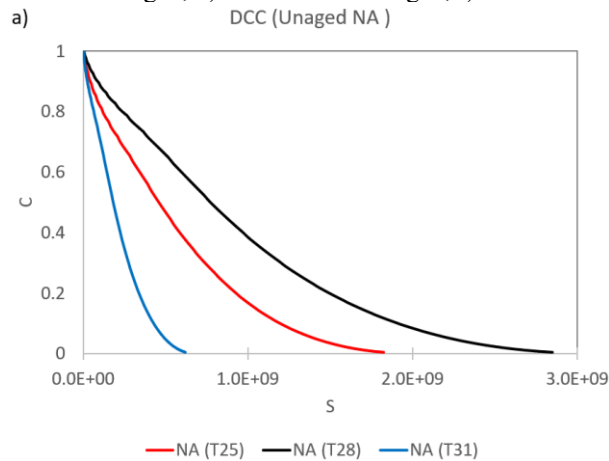


Figure. S 1 Stored PSE curves of bitumens at different temperatures and aging conditions: a) T25°C – unaged, b) T25°C – RTFO aged, c) T25°C – PAV aged, d) T28°C – unaged, e) T28°C – RTFO aged, f) T28°C – PAV aged, g) T31°C – unaged, h) T31°C – RTFO aged, i) T31°C – PAV aged.



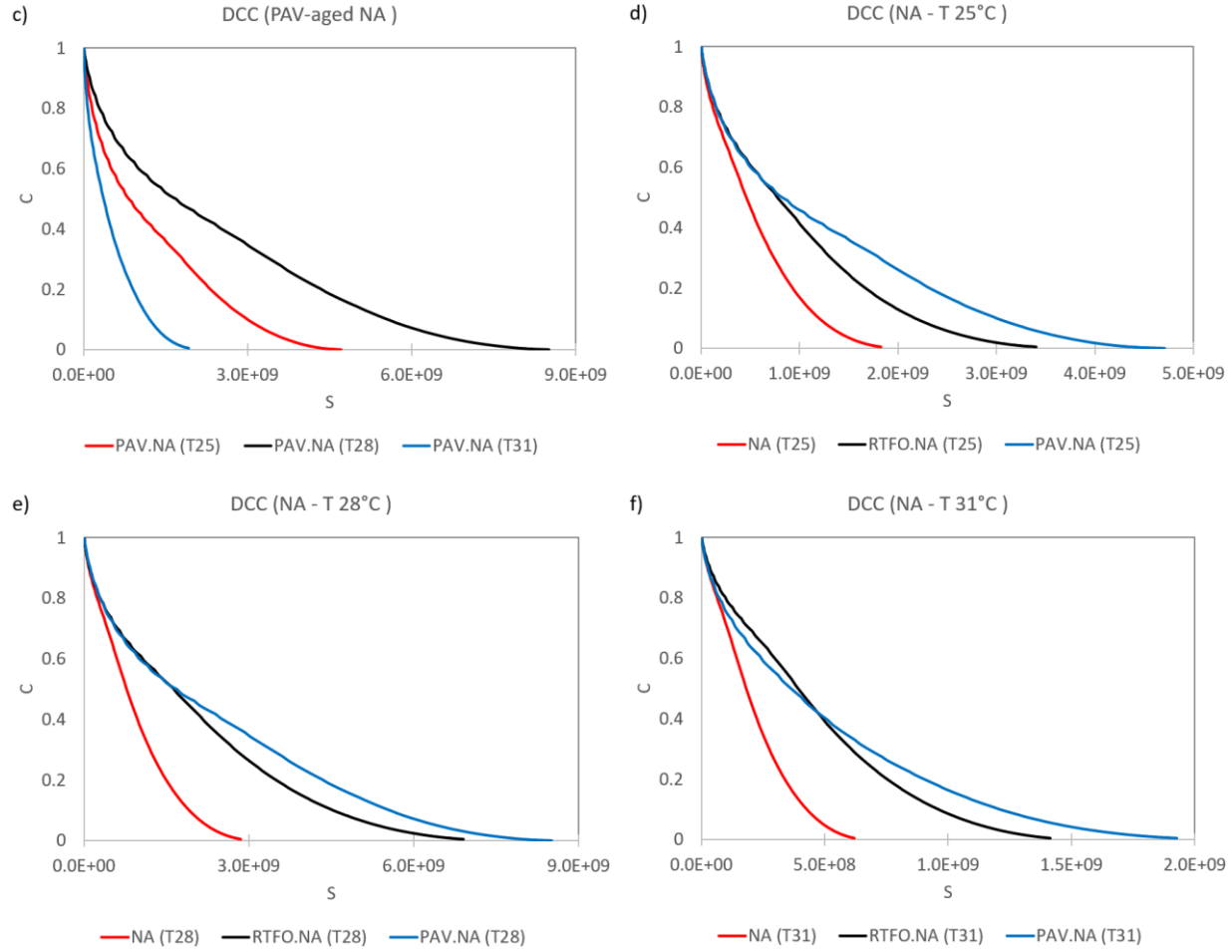
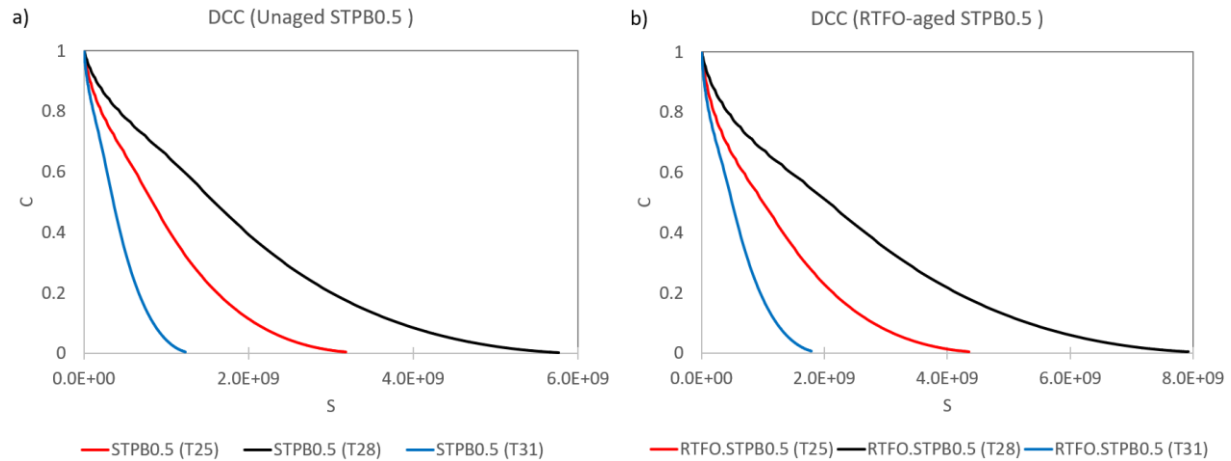


Figure. S 2 DCCs of NA at different temperatures and aging conditions: a) unaged NA – T25, T28, T31 b) RTFO-aged NA – T25, T28, T31 c) PAV-aged NA – T25, T28, T31 d) T25 – unaged NA, RTFO-aged NA, PAV-aged NA e) T28 – unaged NA, RTFO-aged NA, PAV-aged NA f) T31 – unaged NA, RTFO-aged NA, PAV-aged NA.



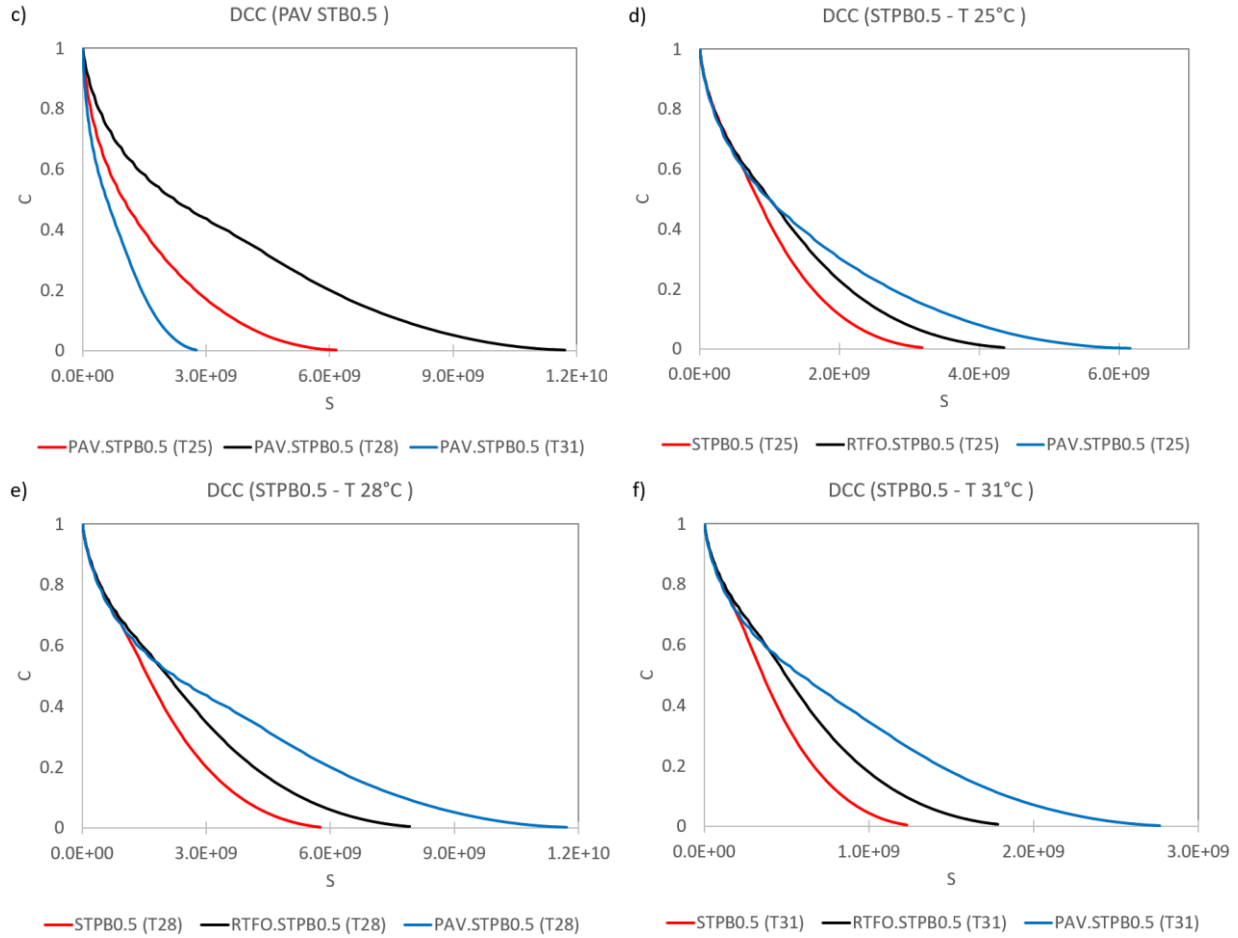
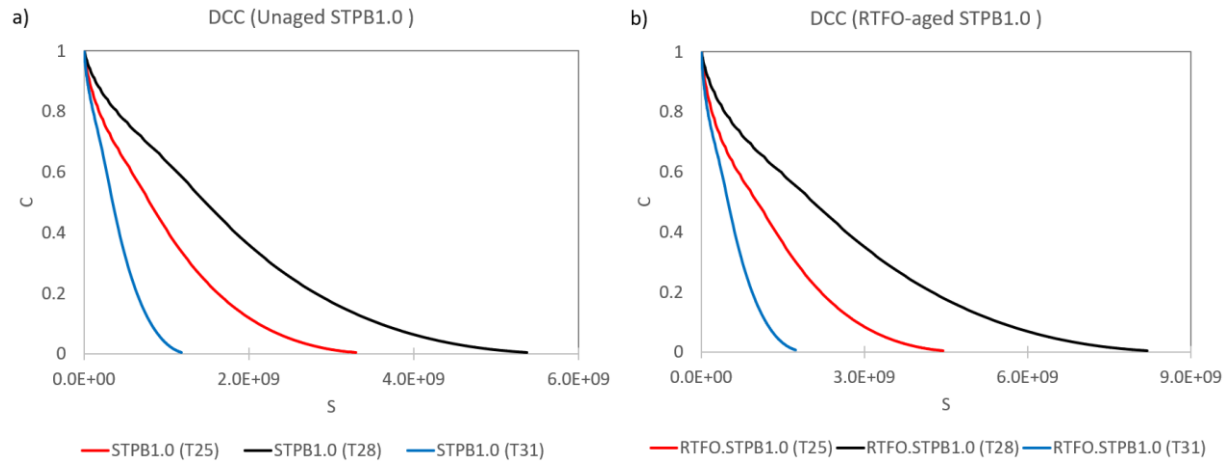


Figure. S 3 DCCs of STPB0.5 at different temperatures and aging conditions: a) unaged STPB0.5 – T25, T28, T31 b) RTFO-aged STPB0.5 – T25, T28, T31 c) PAV-aged STPB0.5 – T25, T28, T31 d) T25 – unaged STPB0.5, RTFO-aged STPB0.5, PAV-aged STPB0.5 e) T28 – unaged STPB0.5, RTFO-aged STPB0.5, PAV-aged STPB0.5 f) T31 – unaged STPB0.5, RTFO-aged STPB0.5, PAV-aged STPB0.5.



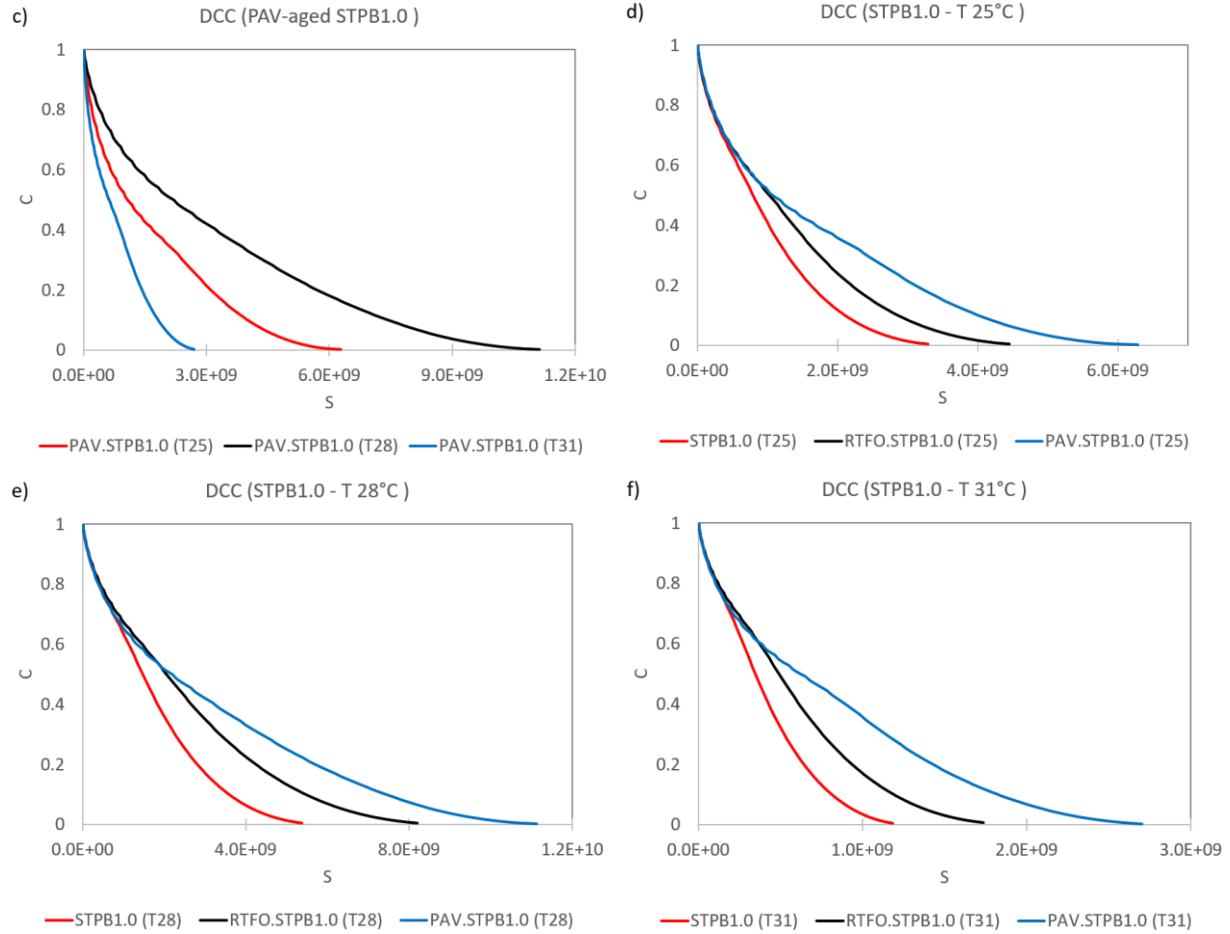
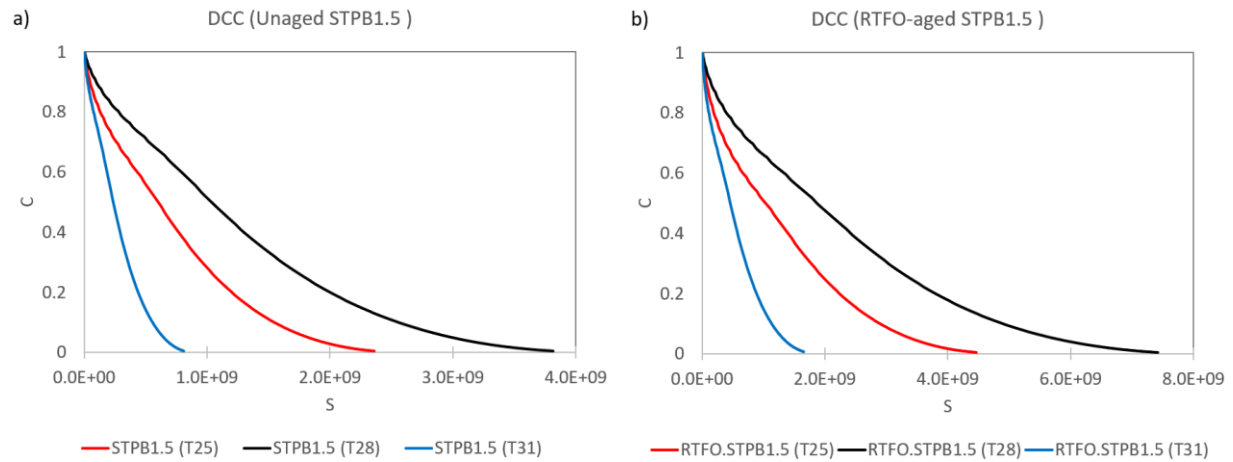


Figure. S 4 DCCs of STPB1.0 at different temperatures and aging conditions: a) unaged STPB1.0 – T25, T28, T31 b) RTFO-aged STPB1.0 – T25, T28, T31 c) PAV-aged STPB1.0 – T25, T28, T31 d) T25 – unaged STPB1.0, RTFO-aged STPB1.0, PAV-aged STPB1.0 e) T28 – unaged STPB1.0, RTFO-aged STPB1.0, PAV-aged STPB1.0 f) T31 – unaged STPB1.0, RTFO-aged STPB1.0, PAV-aged STPB1.0.



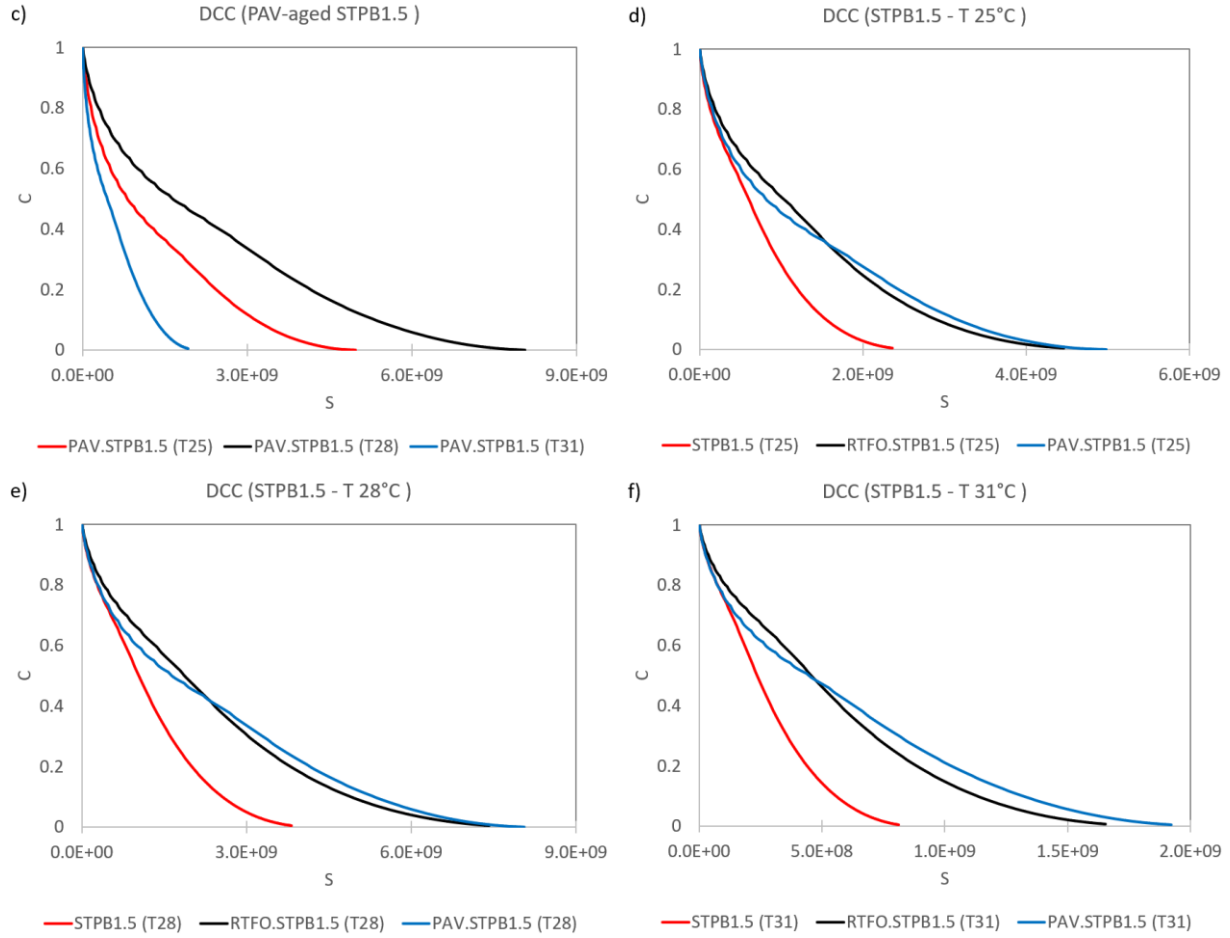
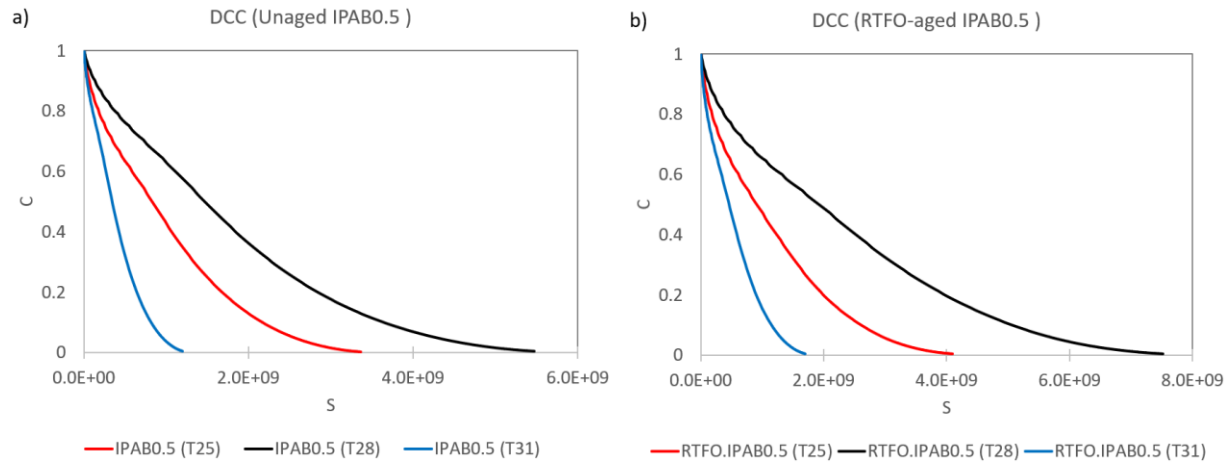


Figure. 5 DCCs of STPB1.5 at different temperatures and aging conditions: a) unaged STPB1.5 – T25, T28, T31 b) RTFO-aged STPB1.5 – T25, T28, T31 c) PAV-aged STPB1.5 – T25, T28, T31 d) T25 – unaged STPB1.5, RTFO-aged STPB1.5, PAV-aged STPB1.5 e) T28 – unaged STPB1.5, RTFO-aged STPB1.5, PAV-aged STPB1.5 f) T31 – unaged STPB1.5, RTFO-aged STPB1.5, PAV-aged STPB1.5.



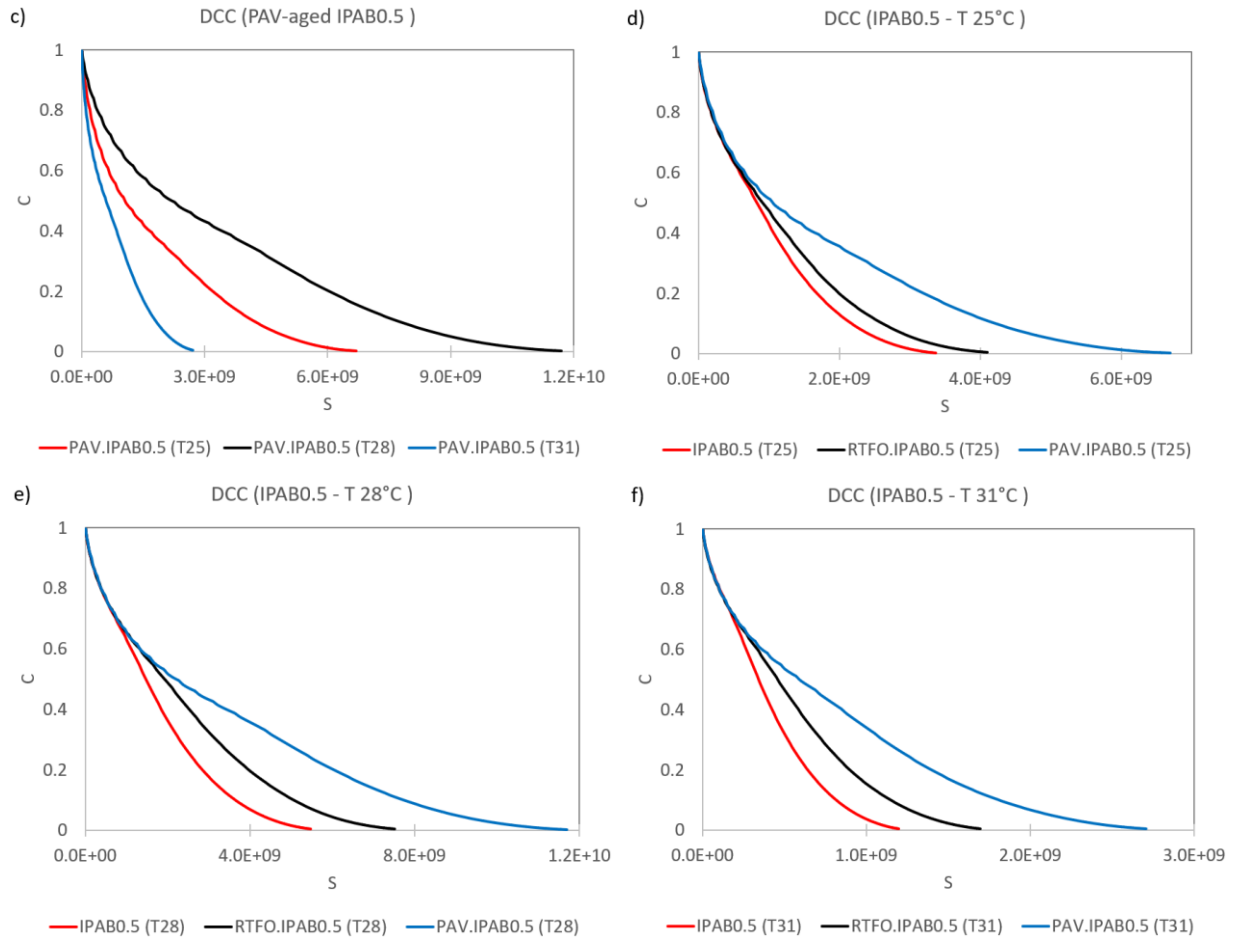
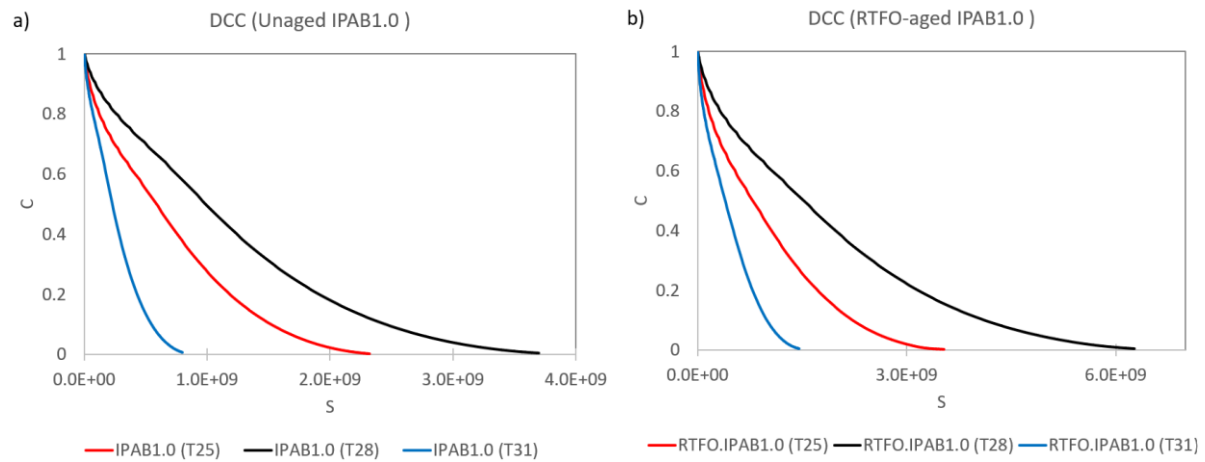


Figure. S 6 DCCs of IPAB0.5 at different temperatures and aging conditions: a) unaged IPAB0.5 – T25, T28, T31 b) RTFO-aged IPAB0.5 – T25, T28, T31 c) PAV-aged IPAB0.5 – T25, T28, T31 d) T25 – unaged IPAB0.5, RTFO-aged IPAB0.5, PAV-aged IPAB0.5 e) T28 – unaged IPAB0.5, RTFO-aged IPAB0.5, PAV-aged IPAB0.5 f) T31 – unaged IPAB0.5, RTFO-aged IPAB0.5, PAV-aged IPAB0.5.



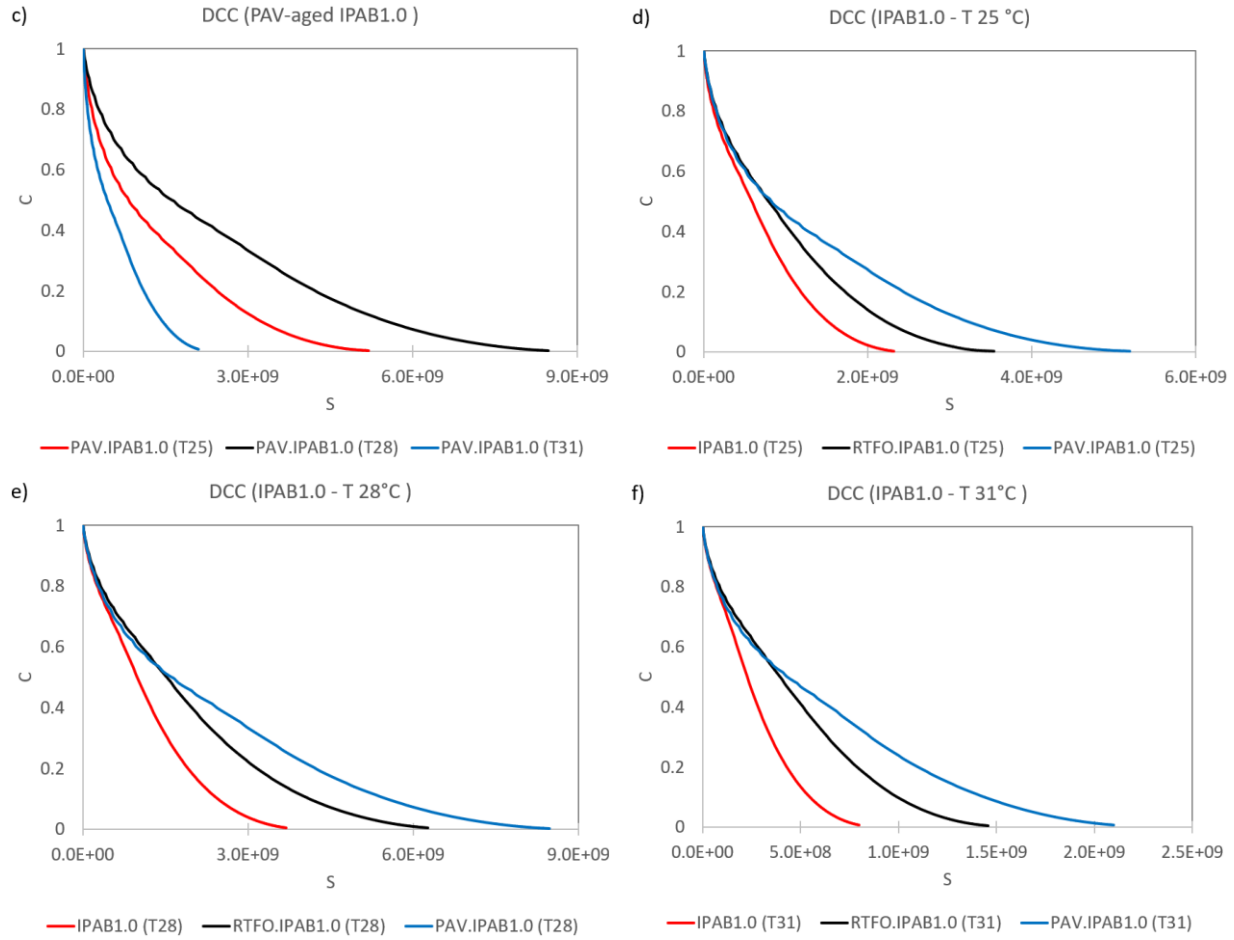
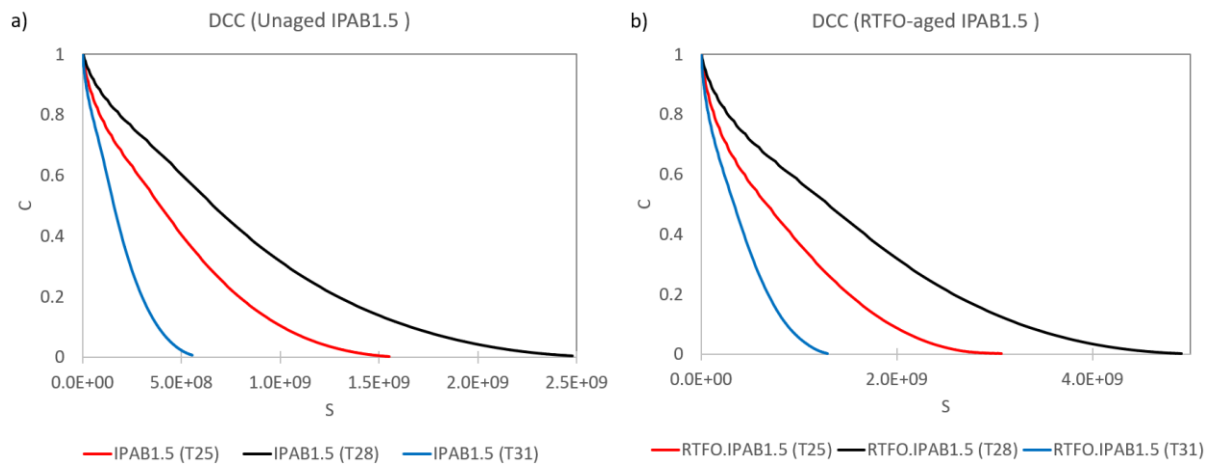


Figure. S 7 DCCs of IPAB1.0 at different temperatures and aging conditions: a) unaged IPAB1.0 – T25, T28, T31 b) RTFO-aged IPAB1.0 – T25, T28, T31 c) PAV-aged IPAB1.0 – T25, T28, T31 d) T25 – unaged IPAB1.0, RTFO-aged IPAB1.0, PAV-aged IPAB1.0 e) T28 – unaged IPAB1.0, RTFO-aged IPAB1.0, PAV-aged IPAB1.0 f) T31 – unaged IPAB1.0, RTFO-aged IPAB1.0, PAV-aged IPAB1.0.



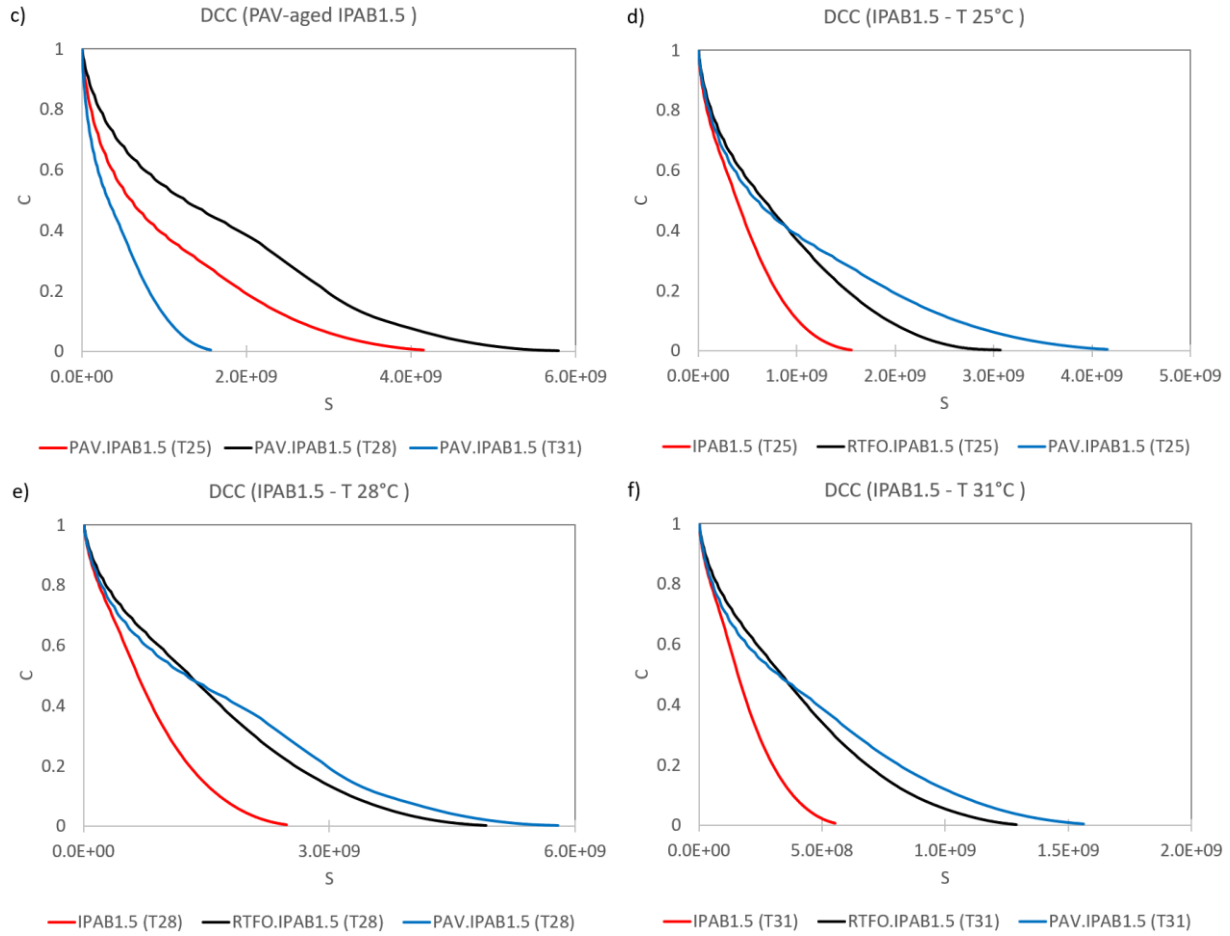
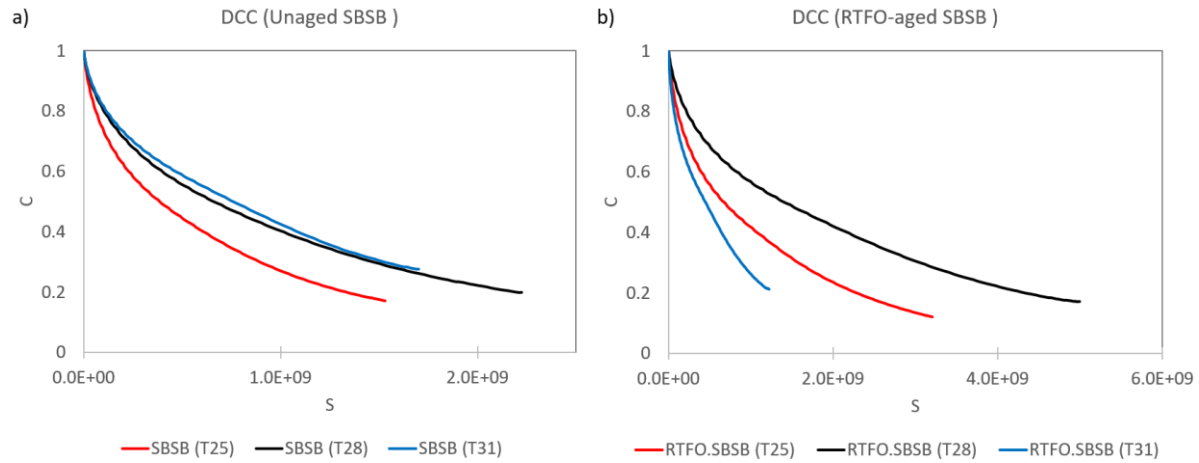


Figure. S 8 DCCs of IPAB1.5 at different temperatures and aging conditions: a) unaged IPAB1.5 – T25, T28, T31 b) RTFO-aged IPAB1.5 – T25, T28, T31 c) PAV-aged IPAB1.5 – T25, T28, T31 d) T25 – unaged IPAB1.5, RTFO-aged IPAB1.5, PAV-aged IPAB1.5 e) T28 – unaged IPAB1.5, RTFO-aged IPAB1.5, PAV-aged IPAB1.5 f) T31 – unaged IPAB1.5, RTFO-aged IPAB1.5, PAV-aged IPAB1.5.



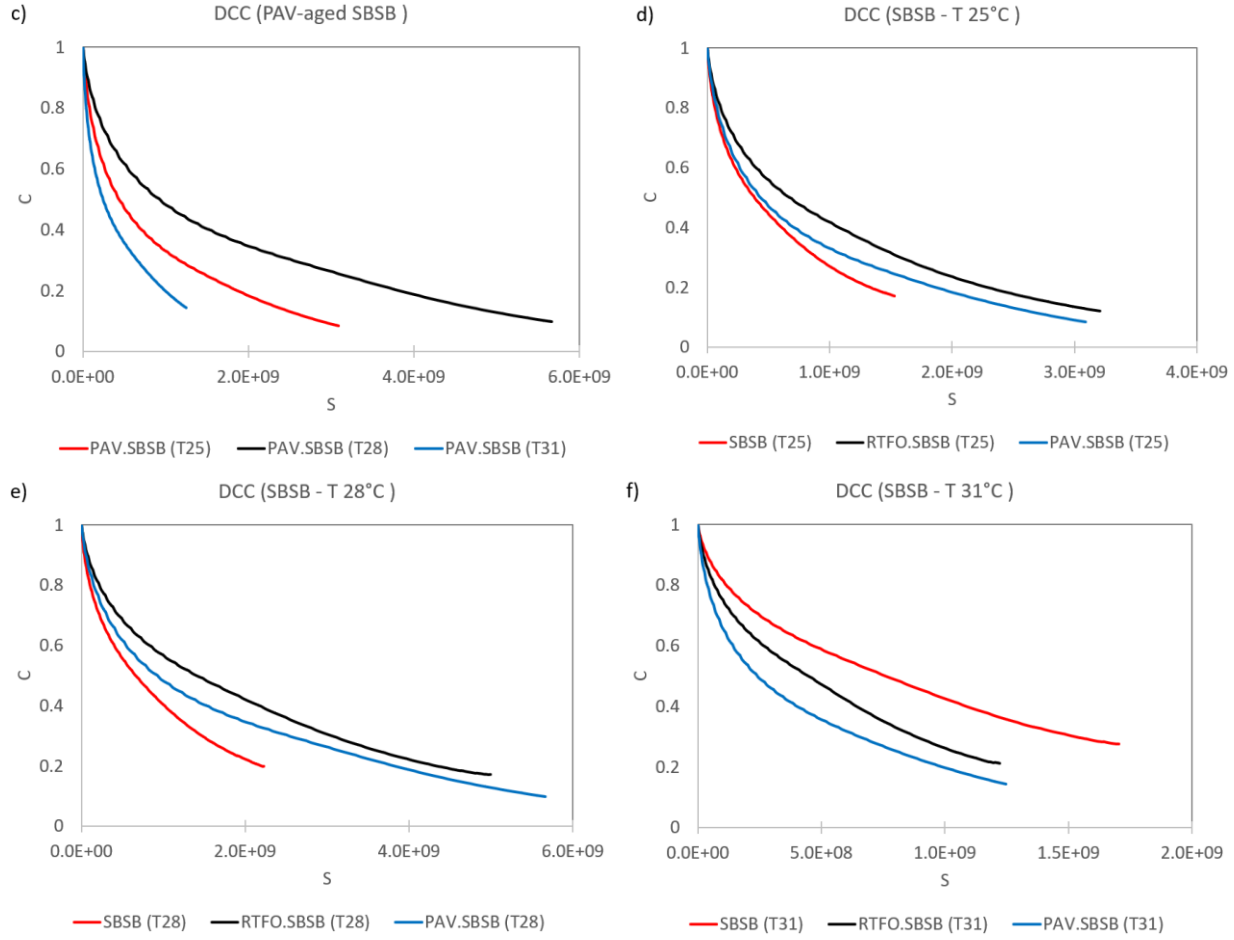
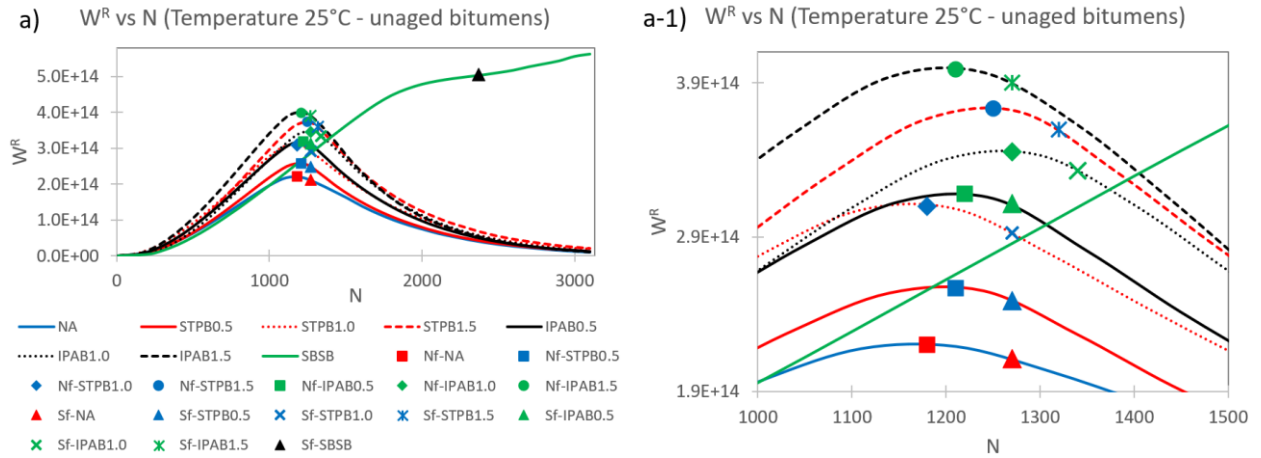
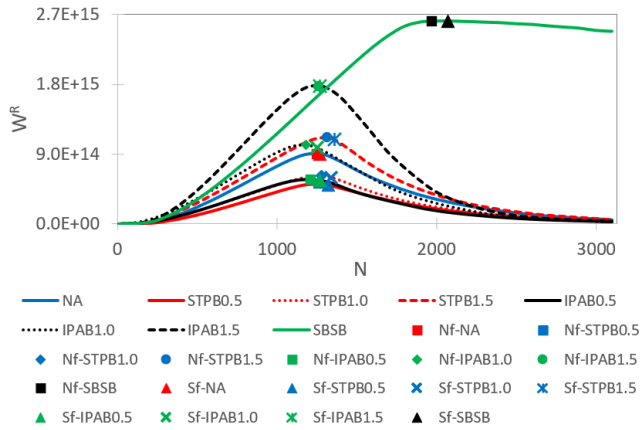


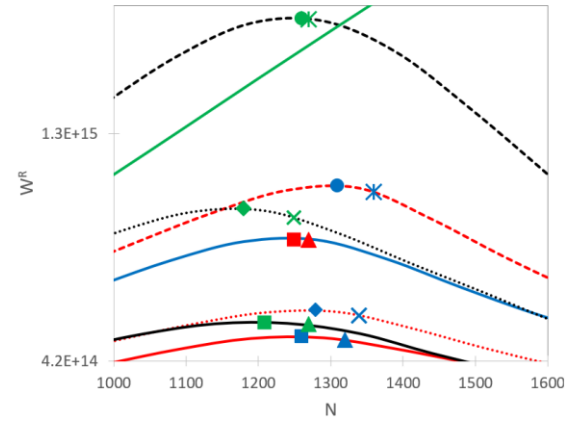
Figure. S 9 DCCs of SBSB at different temperatures and aging conditions: a) unaged SBSB – T25, T28, T31 b) RTFO-aged SBSB – T25, T28, T31 c) PAV-aged SBSB – T25, T28, T31 d) T25 – unaged SBSB, RTFO-aged SBSB, PAV-aged SBSB e) T28 – unaged SBSB, RTFO-aged SBSB, PAV-aged SBSB f) T31 – unaged SBSB, RTFO-aged SBSB, PAV-aged SBSB.



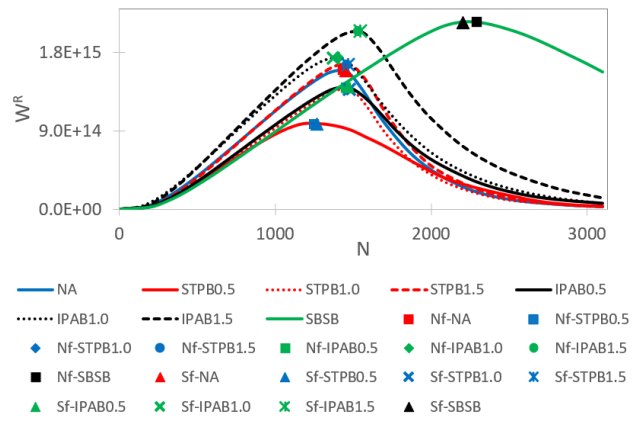
b) W^R vs N (Temperature 25°C - RTFO aged bitumens)



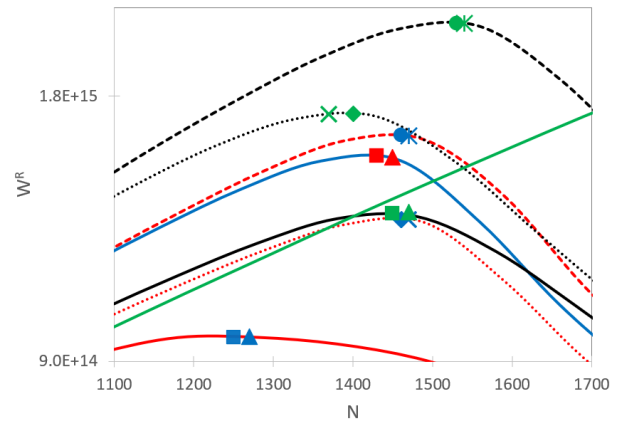
b-1) W^R vs N (Temperature 25°C - RTFO aged bitumens)



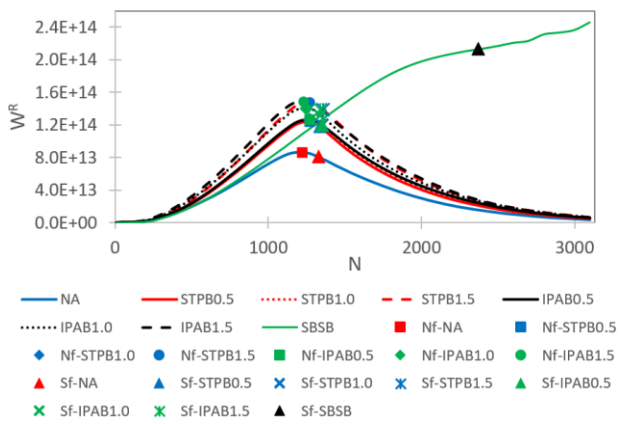
c) W^R vs N (Temperature 25°C - PAV aged bitumens)



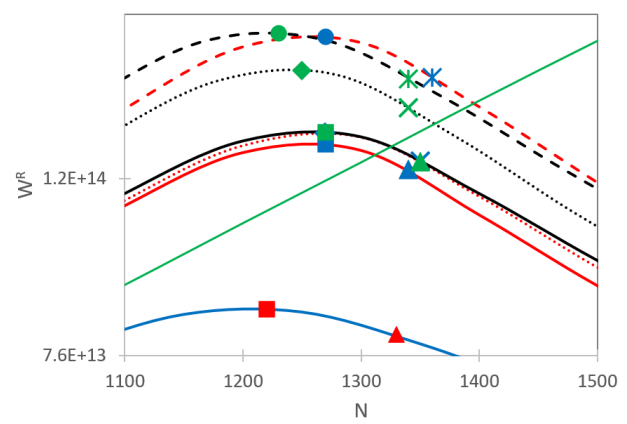
c-1) W^R vs N (Temperature 25°C - PAV aged bitumens)



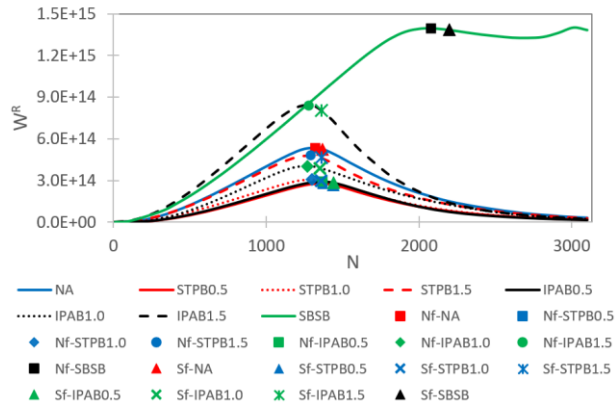
d) W^R vs N (Temperature 28°C - unaged bitumens)



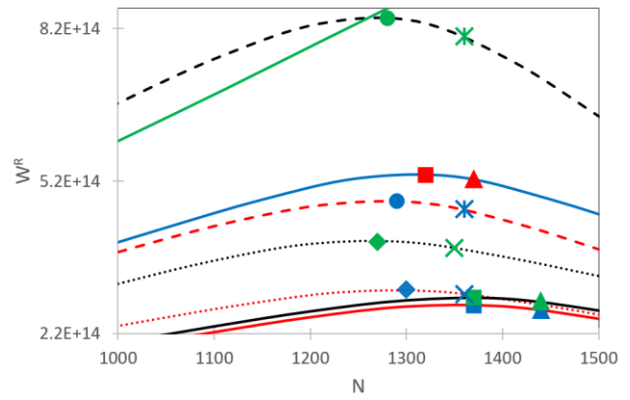
d-1) W^R vs N (Temperature 28°C - unaged bitumens)



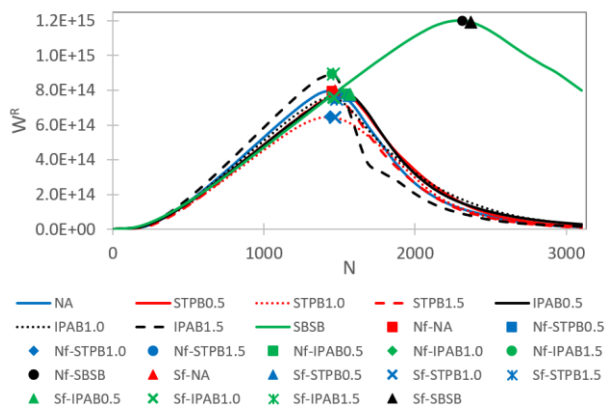
e) W^R vs N (Temperature 28°C - RTFO aged bitumens)



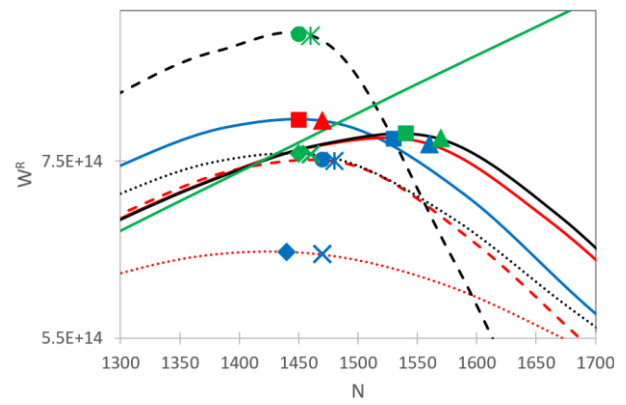
e-1) W^R vs N (Temperature 28°C - RTFO aged bitumens)



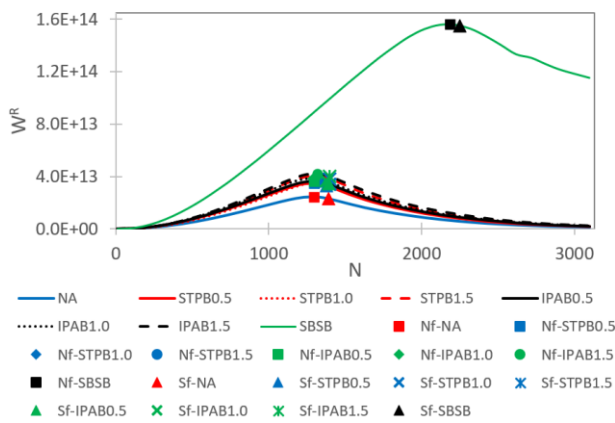
f) W^R vs N (Temperature 28°C - PAV aged bitumens)



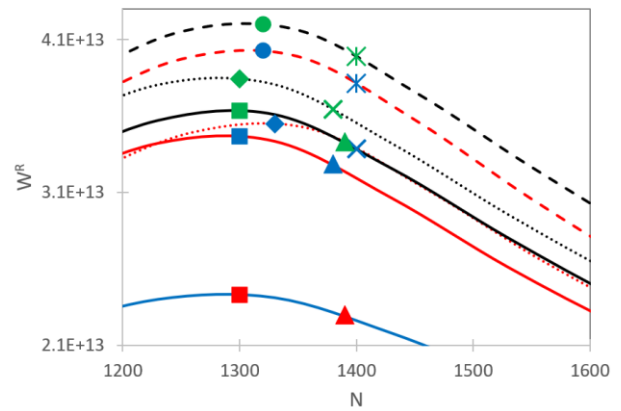
f-1) W^R vs N (Temperature 28°C - PAV aged bitumens)



g) W^R vs N (Temperature 31°C - unaged bitumens)



g-1) W^R vs N (Temperature 31°C - unaged bitumens)



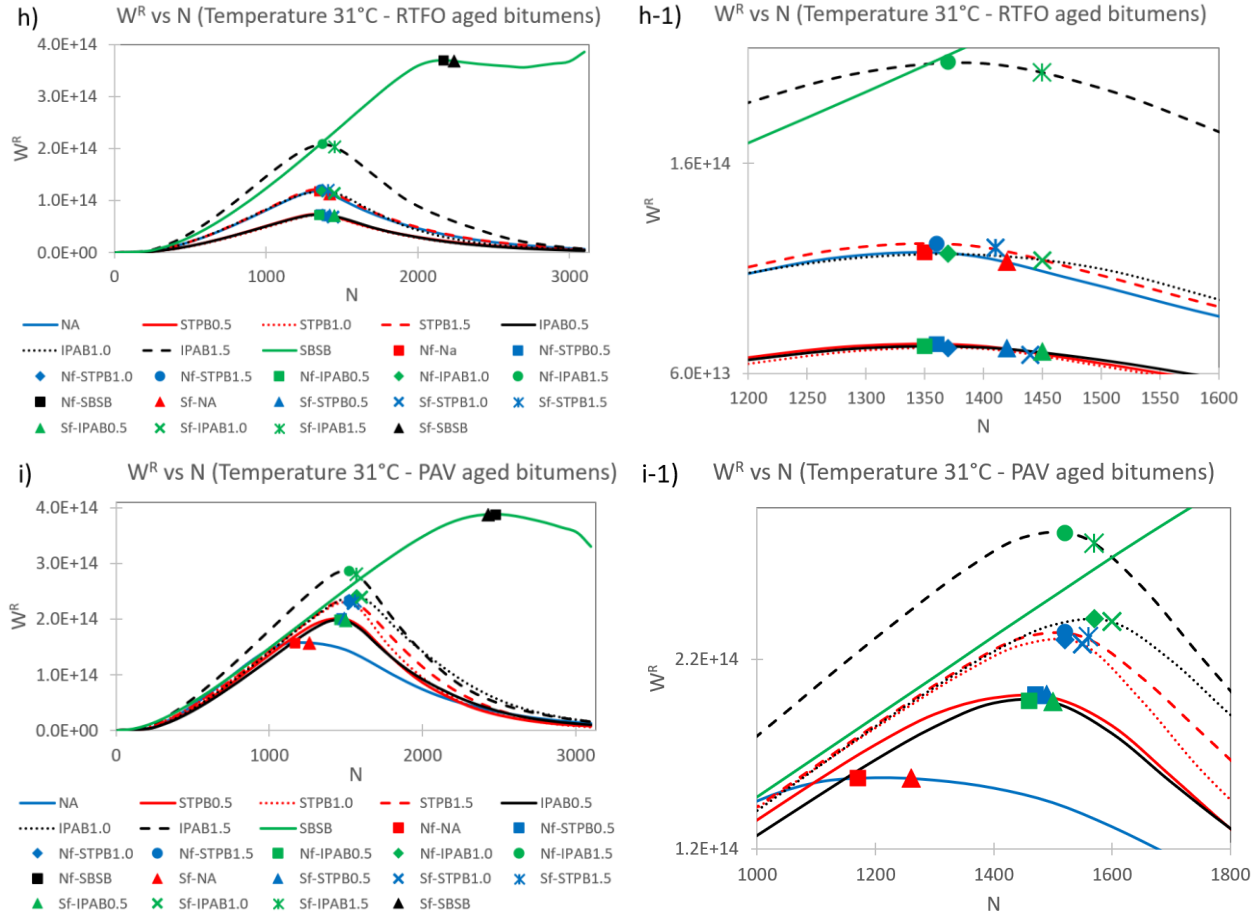
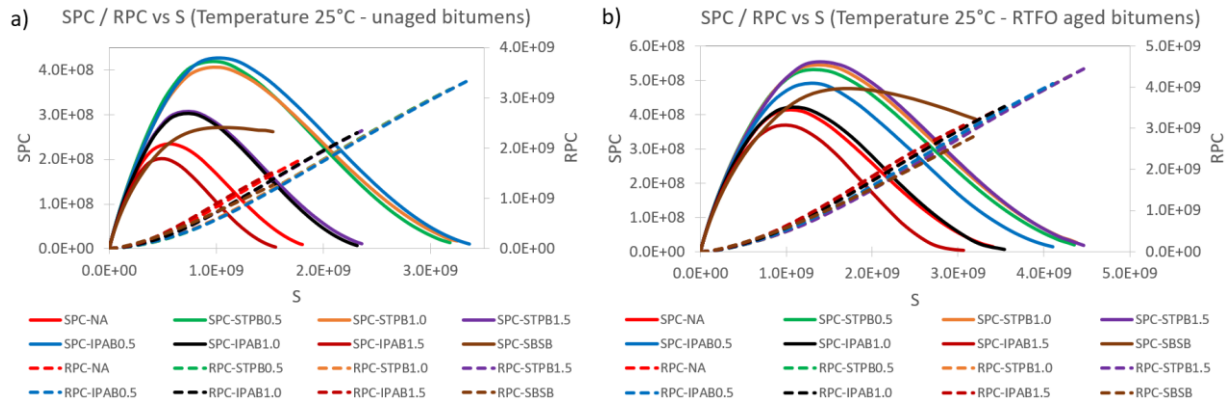
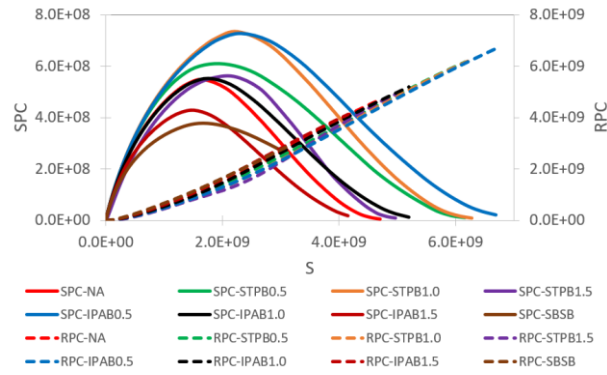


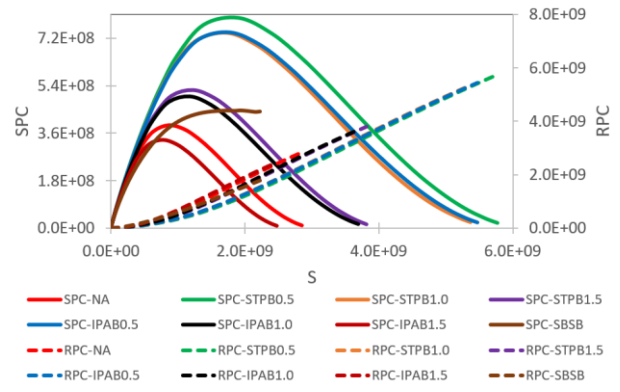
Figure. S 10 Failure definition points identified by the peak of W^R (Nf) and the peak of SPC (Sf) on W^R curve: a) T 25°C - unaged bitumens, a-1) zoom [peaks of PSE curves in a)], b) T 25°C – RTFO aged bitumens, b-1) zoom [peaks of PSE curves in b)], c) T 25°C – PAV aged bitumens, c-1) zoom [peaks of PSE curves in c)], d) T 28°C - unaged bitumens, d-1) zoom [peaks of PSE curves in d)], e) T 28°C – RTFO aged bitumens, e-1) zoom [peaks of PSE curves in e)], f) T 28°C – PAV aged bitumens, f-1) zoom [peaks of PSE curves in f)], g) T 31°C - unaged bitumens, g-1) zoom [peaks of PSE curves in g)], h) T 31°C – RTFO aged bitumens, h-1) zoom [peaks of PSE curves in h)], i) T 31°C – PAV aged bitumens, i-1) zoom [peaks of PSE curves in i)].



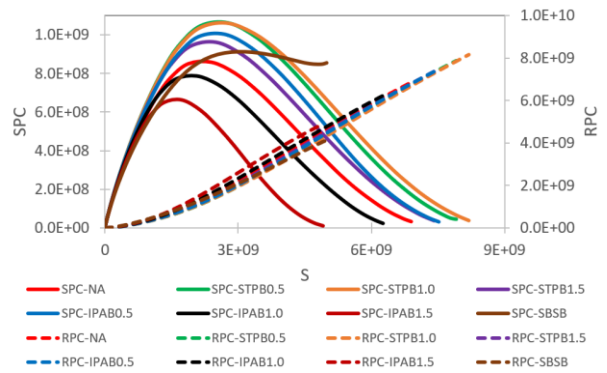
c) SPC / RPC vs S (Temperature 25°C - PAV aged bitumens)



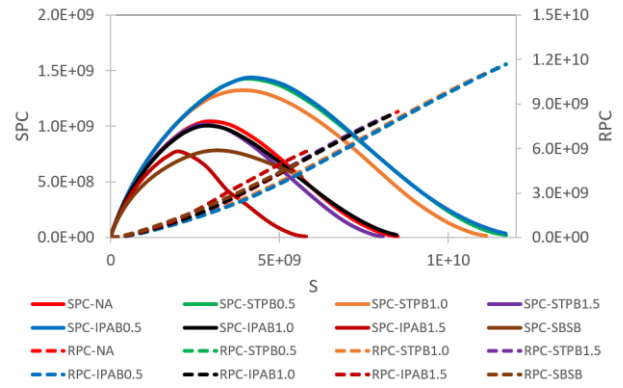
d) SPC / RPC vs S (Temperature 28°C - unaged bitumens)



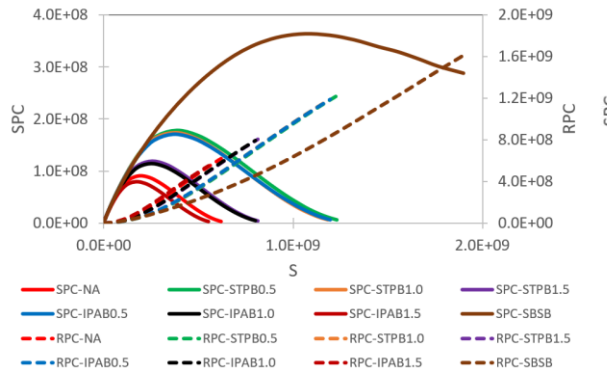
e) SPC / RPC vs S (Temperature 28°C - RTFO aged bitumens)



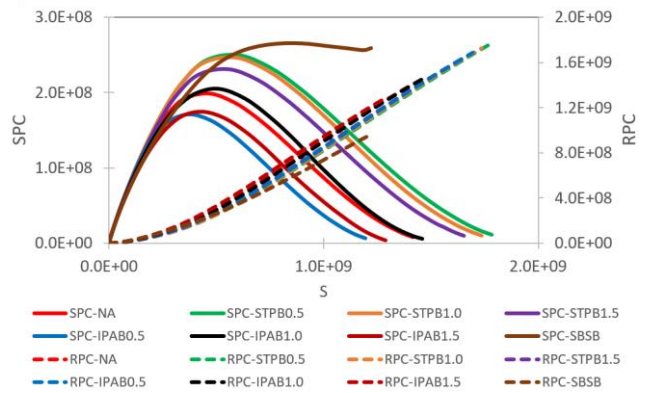
f) SPC / RPC vs S (Temperature 28°C - PAV aged bitumens)



g) SPC / RPC vs S (Temperature 31°C - unaged bitumens)



h) SPC / RPC vs S (Temperature 31°C - RTFO aged bitumens)



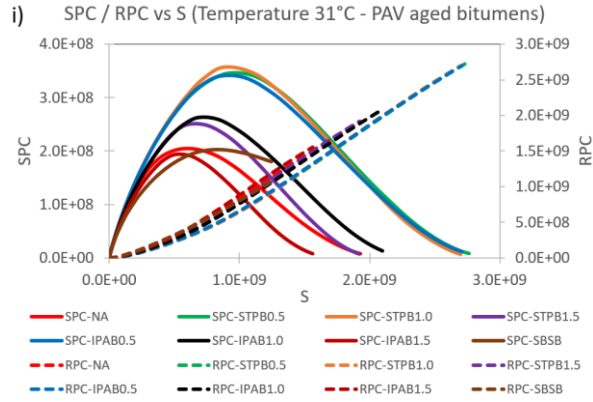


Figure. S 11 SPC and RPC curves of bitumens: a) T 25°C - unaged bitumens, b) T 25°C – RTFO aged bitumens, c) T 25°C – PAV aged bitumens, d) T 28°C - unaged bitumens, e) T 28°C – RTFO aged bitumens, f) T 28°C – PAV aged bitumens, g) T 31°C - unaged bitumens, h) T 31°C – RTFO aged bitumens, i) T 31°C – PAV aged bitumens.

Table S 1 CW_{DCC} of unaged bitumens at each failure point (25 °C).

		CW_{DCC} (T25 – unaged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	3.529E+08	4.102E+08	4.039E+08	3.766E+08	4.035E+08	3.674E+08	3.250E+08	3.243E+08
	STPB0.5	4.772E+08	6.210E+08	6.060E+08	5.392E+08	6.096E+08	5.282E+08	4.257E+08	4.598E+08
	STPB1.0	4.940E+08	6.628E+08	6.453E+08	5.673E+08	6.504E+08	5.567E+08	4.371E+08	4.837E+08
	STPB1.5	4.321E+08	5.328E+08	5.221E+08	4.749E+08	5.234E+08	4.640E+08	3.911E+08	4.059E+08
	IPAB0.5	4.925E+08	6.587E+08	6.415E+08	5.646E+08	6.464E+08	5.540E+08	4.362E+08	4.814E+08
	IPAB1.0	4.336E+08	5.355E+08	5.247E+08	4.770E+08	5.261E+08	4.660E+08	3.924E+08	4.076E+08
	IPAB1.5	3.196E+08	3.645E+08	3.595E+08	3.380E+08	3.589E+08	3.297E+08	2.961E+08	2.923E+08
	SBSB	5.003E+08	6.814E+08	6.627E+08	5.792E+08	6.686E+08	5.689E+08	4.410E+08	4.939E+08

Table S 2 CW_{SPC} of unaged bitumens at each failure point (25 °C).

		CW_{SPC} (T25 – unaged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	8.119E+16	1.032E+17	9.834E+16	9.153E+16	9.798E+16	8.936E+16	7.314E+16	7.293E+16
	STPB0.5	1.659E+17	2.533E+17	2.422E+17	2.069E+17	2.477E+17	2.015E+17	1.398E+17	1.643E+17
	STPB1.0	1.820E+17	2.912E+17	2.792E+17	2.326E+17	2.862E+17	2.266E+17	1.507E+17	1.812E+17
	STPB1.5	1.298E+17	1.819E+17	1.735E+17	1.545E+17	1.768E+17	1.506E+17	1.130E+17	1.293E+17
	IPAB0.5	1.805E+17	2.874E+17	2.755E+17	2.301E+17	2.823E+17	2.242E+17	1.497E+17	1.785E+17
	IPAB1.0	1.309E+17	1.839E+17	1.754E+17	1.561E+17	1.788E+17	1.521E+17	1.139E+17	1.306E+17
	IPAB1.5	6.495E+16	8.005E+16	7.628E+16	7.194E+16	7.611E+16	7.029E+16	5.912E+16	5.901E+16
	SBSB	1.887E+17	3.089E+17	2.966E+17	2.440E+17	3.043E+17	2.378E+17	1.549E+17	1.862E+17

Table S 3 Ranking of CW_{DCC} of unaged bitumens respect to each failure point (25 °C)

Ranking of CW_{DCC} (T25 – unaged bitumen)							
NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB

	NA	6	1	2	4	3	5	7	8
	STPB0.5	6	1	3	4	2	5	8	7
	STPB1.0	6	1	3	4	2	5	8	7
	STPB1.5	6	1	3	4	2	5	8	7
	IPAB0.5	6	1	3	4	2	5	8	7
	IPAB1.0	6	1	3	4	2	5	8	7
	IPAB1.5	6	1	2	4	3	5	7	8
	SBSB	6	1	3	4	2	5	8	7

Table S 4 Ranking of CW_{SPC} of unaged bitumens respect to each failure point (25 °C).

		Ranking of CW_{SPC} (T25 – unaged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
	NA	6	1	2	4	3	5	7	8
	STPB0.5	6	1	3	4	2	5	8	7
	STPB1.0	6	1	3	4	2	5	8	7
	STPB1.5	6	1	3	4	2	5	8	7
	IPAB0.5	6	1	3	4	2	5	8	7
	IPAB1.0	6	1	3	4	2	5	8	7
	IPAB1.5	6	1	2	4	3	5	7	8
	SBSB	6	1	3	4	2	5	8	7

Table S 5 CW_{DCC} of RTFO aged bitumens at each failure point (25 °C).

		CW_{DCC} (T25 – RTFO aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
	NA	6.514E+08	7.182E+08	7.247E+08	7.089E+08	6.896E+08	6.595E+08	6.171E+08	6.225E+08
	STPB0.5	7.550E+08	8.494E+08	8.594E+08	8.451E+08	8.135E+08	7.669E+08	7.073E+08	7.339E+08
	STPB1.0	7.663E+08	8.643E+08	8.748E+08	8.610E+08	8.276E+08	7.786E+08	7.168E+08	7.467E+08
	STPB1.5	7.723E+08	8.724E+08	8.832E+08	8.697E+08	8.352E+08	7.850E+08	7.218E+08	7.536E+08
	IPAB0.5	7.347E+08	8.227E+08	8.319E+08	8.170E+08	7.883E+08	7.456E+08	6.900E+08	7.111E+08
	IPAB1.0	6.758E+08	7.482E+08	7.554E+08	7.396E+08	7.180E+08	6.846E+08	6.387E+08	6.478E+08
	IPAB1.5	5.886E+08	6.426E+08	6.476E+08	6.323E+08	6.181E+08	5.949E+08	5.606E+08	5.588E+08
	SBSB	8.284E+08	9.517E+08	9.657E+08	9.563E+08	9.099E+08	8.444E+08	7.668E+08	8.225E+08

Table S 6 CW_{SPC} of RTFO aged bitumens at each failure point (25 °C).

		CW_{SPC} (T25 – RTFO aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
	NA	2.989E+17	3.310E+17	3.371E+17	3.304E+17	3.278E+17	3.004E+17	2.745E+17	2.846E+17
	STPB0.5	4.238E+17	4.892E+17	5.012E+17	4.878E+17	4.775E+17	4.284E+17	3.844E+17	4.229E+17
	STPB1.0	4.395E+17	5.100E+17	5.230E+17	5.091E+17	4.969E+17	4.444E+17	3.977E+17	4.373E+17

point of:	STPB1.5	4.481E+17	5.216E+17	5.351E+17	5.196E+17	5.077E+17	4.532E+17	4.050E+17	4.461E+17
	IPAB0.5	3.963E+17	4.536E+17	4.640E+17	4.501E+17	4.441E+17	4.005E+17	3.610E+17	3.913E+17
	IPAB1.0	3.245E+17	3.636E+17	3.707E+17	3.618E+17	3.589E+17	3.277E+17	2.983E+17	3.127E+17
	IPAB1.5	2.351E+17	2.571E+17	2.613E+17	2.569E+17	2.567E+17	2.372E+17	2.183E+17	2.162E+17
	SBSB	5.713E+17	6.454E+17	6.664E+17	6.657E+17	6.225E+17	5.759E+17	4.764E+17	5.676E+17

Table S 7 Ranking of CW_{DCC} of RTFO aged bitumens respect to each failure point (25 °C).

		Ranking of CW_{DCC} (T25 – RTFO aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	6	2	1	3	4	5	8	7
	STPB0.5	6	2	1	3	4	5	8	7
	STPB1.0	6	2	1	3	4	5	8	7
	STPB1.5	6	2	1	3	4	5	8	7
	IPAB0.5	6	2	1	3	4	5	8	7
	IPAB1.0	6	2	1	3	4	5	8	7
	IPAB1.5	6	2	1	3	4	5	7	8
	SBSB	6	3	1	2	4	5	8	7

Table S 8 Ranking of CW_{SPC} of RTFO aged bitumens respect to each failure point (25 °C).

		Ranking of CW_{SPC} (T25 – RTFO aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	6	2	1	3	4	5	8	7
	STPB0.5	6	2	1	3	4	5	8	7
	STPB1.0	6	2	1	3	4	5	8	7
	STPB1.5	6	2	1	3	4	5	8	7
	IPAB0.5	6	2	1	3	4	5	8	7
	IPAB1.0	6	2	1	3	4	5	8	7
	IPAB1.5	6	2	1	3	4	5	7	8
	SBSB	6	3	1	2	4	5	8	7

Table S 9 CW_{DCC} of PAV aged bitumens at each failure point (25 °C).

		CW_{DCC} (T25 – PAV aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	9.211E+08	9.865E+08	1.021E+09	9.277E+08	1.015E+09	9.232E+08	8.078E+08	7.303E+08
	STPB0.5	9.756E+08	1.050E+09	1.092E+09	9.826E+08	1.085E+09	9.789E+08	8.481E+08	7.662E+08
	STPB1.0	1.064E+09	1.155E+09	1.215E+09	1.071E+09	1.208E+09	1.070E+09	9.082E+08	8.199E+08
	STPB1.5	9.480E+08	1.018E+09	1.056E+09	9.548E+08	1.049E+09	9.507E+08	8.279E+08	7.482E+08
	IPAB0.5	1.080E+09	1.176E+09	1.240E+09	1.088E+09	1.233E+09	1.088E+09	9.184E+08	8.292E+08
	IPAB1.0	9.501E+08	1.020E+09	1.059E+09	9.570E+08	1.052E+09	9.528E+08	8.295E+08	7.496E+08

IPAB1.5	8.602E+08	9.173E+08	9.452E+08	8.663E+08	9.390E+08	8.612E+08	7.607E+08	6.886E+08
SBSB	9.327E+08	9.999E+08	1.036E+09	9.394E+08	1.030E+09	9.351E+08	8.165E+08	7.381E+08

Table S 10 CW_{SPC} of PAV aged bitumens at each failure point (25 °C).

		CW_{SPC} (T25 – PAV aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	6.551E+17	7.071E+17	7.292E+17	6.597E+17	7.276E+17	6.574E+17	5.378E+17	4.739E+17
	STPB0.5	7.597E+17	8.265E+17	8.604E+17	7.641E+17	8.587E+17	7.625E+17	6.148E+17	5.447E+17
	STPB1.0	9.620E+17	1.063E+18	1.139E+18	9.699E+17	1.138E+18	9.680E+17	7.554E+17	6.839E+17
	STPB1.5	6.989E+17	7.641E+17	7.911E+17	7.097E+17	7.895E+17	7.077E+17	5.750E+17	5.078E+17
	IPAB0.5	9.992E+17	1.116E+18	1.208E+18	1.015E+18	1.206E+18	1.014E+18	7.849E+17	7.160E+17
	IPAB1.0	7.079E+17	7.686E+17	7.962E+17	7.137E+17	7.945E+17	7.117E+17	5.780E+17	5.105E+17
	IPAB1.5	5.513E+17	5.910E+17	6.058E+17	5.571E+17	6.043E+17	5.542E+17	4.595E+17	4.038E+17
	SBSB	6.758E+17	7.313E+17	7.553E+17	6.810E+17	7.537E+17	6.788E+17	5.537E+17	4.883E+17

Table S 11 Ranking of CW_{DCC} of PAV aged bitumens respect to each failure point (25 °C).

		Ranking of CW_{DCC} (T25 – PAV aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	6	3	1	4	2	5	7	8
	STPB0.5	6	3	1	4	2	5	7	8
	STPB1.0	6	3	1	4	2	5	7	8
	STPB1.5	6	3	1	4	2	5	7	8
	IPAB0.5	6	3	1	4	2	5	7	8
	IPAB1.0	6	3	1	4	2	5	7	8
	IPAB1.5	6	3	1	4	2	5	7	8
	SBSB	6	3	1	4	2	5	7	8

Table S 12 Ranking of CW_{SPC} of PAV aged bitumens respect to each failure point (25 °C).

		Ranking of CW_{SPC} (T25 – PAV aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	6	3	1	4	2	5	7	8
	STPB0.5	6	3	1	4	2	5	7	8
	STPB1.0	6	3	1	4	2	5	7	8
	STPB1.5	6	3	1	4	2	5	7	8
	IPAB0.5	6	3	1	4	2	5	7	8
	IPAB1.0	6	3	1	4	2	5	7	8
	IPAB1.5	6	3	1	4	2	5	7	8
	SBSB	6	3	1	4	2	5	7	8

Table S 13 CW_{DCC} of unaged bitumens at each failure point (28 °C).

		CW _{DCC} (T28 – unaged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	5.969E+08	7.065E+08	6.929E+08	6.387E+08	6.927E+08	6.301E+08	5.577E+08	5.451E+08
	STPB0.5	8.622E+08	1.215E+09	1.179E+09	9.940E+08	1.178E+09	9.766E+08	7.458E+08	8.345E+08
	STPB1.0	8.416E+08	1.155E+09	1.123E+09	9.587E+08	1.121E+09	9.424E+08	7.374E+08	8.054E+08
	STPB1.5	7.245E+08	9.086E+08	8.872E+08	7.941E+08	8.871E+08	7.820E+08	6.608E+08	6.712E+08
	IPAB0.5	8.516E+08	1.182E+09	1.148E+09	9.753E+08	1.147E+09	9.585E+08	7.418E+08	8.190E+08
	IPAB1.0	7.075E+08	8.793E+08	8.591E+08	7.725E+08	8.590E+08	7.609E+08	6.478E+08	6.537E+08
	IPAB1.5	5.460E+08	6.344E+08	6.231E+08	5.799E+08	6.229E+08	5.724E+08	5.139E+08	4.971E+08
	SBSB	8.124E+08	1.083E+09	1.055E+09	9.138E+08	1.053E+09	8.987E+08	7.215E+08	7.686E+08

Table S 14 CW_{SPC} of unaged bitumens at each failure point (28 °C).

		CW _{SPC} (T28 – unaged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	2.387E+17	3.013E+17	3.012E+17	2.613E+17	3.000E+17	2.603E+17	2.131E+17	2.127E+17
	STPB0.5	5.882E+17	9.509E+17	9.235E+17	7.036E+17	9.234E+17	6.847E+17	4.280E+17	5.863E+17
	STPB1.0	5.332E+17	8.550E+17	8.343E+17	6.469E+17	8.336E+17	6.328E+17	4.092E+17	5.326E+17
	STPB1.5	3.596E+17	5.126E+17	5.103E+17	4.224E+17	5.087E+17	4.185E+17	3.081E+17	3.416E+17
	IPAB0.5	5.582E+17	8.988E+17	8.750E+17	6.731E+17	8.747E+17	6.569E+17	4.182E+17	5.570E+17
	IPAB1.0	3.420E+17	4.775E+17	4.765E+17	3.973E+17	4.749E+17	3.940E+17	2.942E+17	3.213E+17
	IPAB1.5	1.977E+17	2.410E+17	2.403E+17	2.116E+17	2.392E+17	2.110E+17	1.749E+17	1.732E+17
	SBSB	4.730E+17	7.464E+17	7.326E+17	5.796E+17	7.314E+17	5.697E+17	3.833E+17	4.726E+17

Table S 15 Ranking of CW_{PCC} of unaged bitumens respect to each failure point (28 °C).

		Ranking of CW _{DCC} (T28 – unaged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	6	1	2	4	3	5	7	8
	STPB0.5	6	1	2	4	3	5	8	7
	STPB1.0	6	1	2	4	3	5	8	7
	STPB1.5	6	1	2	4	3	5	8	7
	IPAB0.5	6	1	2	4	3	5	8	7
	IPAB1.0	6	1	2	4	3	5	8	7
	IPAB1.5	6	1	2	4	3	5	7	8
	SBSB	6	1	2	4	3	5	8	7

Table S 16 Ranking of CW_{SPC} of unaged bitumens respect to each failure point (28 °C).

Ranking of CW_{SPC} (T28 – unaged bitumen)

		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	6	1	2	4	3	5	7	8
	STPB0.5	6	1	2	4	3	5	8	7
	STPB1.0	6	1	2	4	3	5	8	7
	STPB1.5	6	1	2	4	3	5	8	7
	IPAB0.5	6	1	2	4	3	5	8	7
	IPAB1.0	6	1	2	4	3	5	8	7
	IPAB1.5	6	1	2	4	3	5	7	8
	SBSB	6	1	2	4	3	5	8	7

Table S 17 CW_{DCC} of RTFO aged bitumens at each failure point (28 °C).

		CW_{DCC} (T28 – RTFO aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	1.313E+09	1.447E+09	1.442E+09	1.381E+09	1.397E+09	1.298E+09	1.205E+09	1.248E+09
	STPB0.5	1.494E+09	1.668E+09	1.666E+09	1.595E+09	1.610E+09	1.466E+09	1.332E+09	1.433E+09
	STPB1.0	1.459E+09	1.624E+09	1.622E+09	1.552E+09	1.568E+09	1.434E+09	1.310E+09	1.397E+09
	STPB1.5	1.406E+09	1.558E+09	1.555E+09	1.489E+09	1.505E+09	1.385E+09	1.273E+09	1.341E+09
	IPAB0.5	1.469E+09	1.636E+09	1.634E+09	1.565E+09	1.580E+09	1.443E+09	1.316E+09	1.407E+09
	IPAB1.0	1.263E+09	1.385E+09	1.382E+09	1.323E+09	1.339E+09	1.251E+09	1.167E+09	1.198E+09
	IPAB1.5	1.103E+09	1.196E+09	1.194E+09	1.144E+09	1.159E+09	1.097E+09	1.051E+09	1.041E+09
	SBSB	1.635E+09	1.855E+09	1.853E+09	1.776E+09	1.789E+09	1.590E+09	1.411E+09	1.589E+09

Table S 18 CW_{SPC} of RTFO aged bitumens at each failure point (28 °C).

		CW_{SPC} (T28 – RTFO aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	1.209E+18	1.379E+18	1.370E+18	1.311E+18	1.318E+18	1.161E+18	1.065E+18	1.151E+18
	STPB0.5	1.651E+18	1.911E+18	1.903E+18	1.802E+18	1.824E+18	1.601E+18	1.352E+18	1.599E+18
	STPB1.0	1.559E+18	1.797E+18	1.790E+18	1.699E+18	1.717E+18	1.511E+18	1.296E+18	1.503E+18
	STPB1.5	1.424E+18	1.631E+18	1.626E+18	1.549E+18	1.561E+18	1.370E+18	1.211E+18	1.365E+18
	IPAB0.5	1.585E+18	1.829E+18	1.822E+18	1.728E+18	1.747E+18	1.539E+18	1.312E+18	1.530E+18
	IPAB1.0	1.103E+18	1.253E+18	1.245E+18	1.194E+18	1.199E+18	1.066E+18	9.886E+17	1.046E+18
	IPAB1.5	8.035E+17	8.980E+17	8.976E+17	8.657E+17	8.672E+17	7.918E+17	7.591E+17	7.579E+17
	SBSB	2.067E+18	2.443E+18	2.438E+18	2.273E+18	2.324E+18	2.065E+18	1.573E+18	2.063E+18

Table S 19 Ranking of CW_{DCC} of RTFO aged bitumens respect to each failure point (28 °C).

		Ranking of CW_{DCC} (T28 – RTFO aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure	NA	5	1	2	4	3	6	8	7
	STPB0.5	5	1	2	4	3	6	8	7

point of:	STPB1.0	5	1	2	4	3	6	8	7
	STPB1.5	5	1	2	4	3	6	8	7
	IPAB0.5	5	1	2	4	3	6	8	7
	IPAB1.0	5	1	2	4	3	6	8	7
	IPAB1.5	5	1	2	4	3	6	7	8
	SBSB	5	1	2	4	3	6	8	7

Table S 20 Ranking of CW_{SPC} of RTFO aged bitumens respect to each failure point (28 °C).

		Ranking of CW_{SPC} (T28 – RTFO aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	5	1	2	4	3	6	8	7
	STPB0.5	5	1	2	4	3	6	8	7
	STPB1.0	5	1	2	4	3	6	8	7
	STPB1.5	5	1	2	4	3	6	8	7
	IPAB0.5	5	1	2	4	3	6	8	7
	IPAB1.0	5	1	2	4	3	6	8	7
	IPAB1.5	5	1	2	4	3	6	7	8
	SBSB	5	1	2	4	3	6	8	7

Table S 21 CW_{DCC} of PAV aged bitumens at each failure point (28 °C).

		CW_{DCC} (T28 – PAV aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	1.648E+09	1.821E+09	1.804E+09	1.636E+09	1.818E+09	1.626E+09	1.421E+09	1.357E+09
	STPB0.5	2.015E+09	2.323E+09	2.285E+09	1.986E+09	2.319E+09	1.975E+09	1.591E+09	1.617E+09
	STPB1.0	1.926E+09	2.191E+09	2.160E+09	1.902E+09	2.188E+09	1.891E+09	1.565E+09	1.557E+09
	STPB1.5	1.569E+09	1.722E+09	1.708E+09	1.558E+09	1.719E+09	1.549E+09	1.370E+09	1.298E+09
	IPAB0.5	2.038E+09	2.358E+09	2.318E+09	2.007E+09	2.354E+09	1.996E+09	1.595E+09	1.632E+09
	IPAB1.0	1.629E+09	1.797E+09	1.781E+09	1.617E+09	1.794E+09	1.607E+09	1.409E+09	1.343E+09
	IPAB1.5	1.333E+09	1.439E+09	1.431E+09	1.327E+09	1.437E+09	1.319E+09	1.200E+09	1.118E+09
	SBSB	1.786E+09	2.000E+09	1.977E+09	1.769E+09	1.997E+09	1.759E+09	1.501E+09	1.458E+09

Table S 22 CW_{SPC} of PAV aged bitumens at each failure point (28 °C).

		CW_{SPC} (T28 – PAV aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	2.063E+18	2.357E+18	2.342E+18	2.041E+18	2.349E+18	2.030E+18	1.687E+18	1.587E+18
	STPB0.5	3.368E+18	4.195E+18	4.066E+18	3.324E+18	4.189E+18	3.292E+18	2.289E+18	2.580E+18
	STPB1.0	3.000E+18	3.626E+18	3.546E+18	2.953E+18	3.617E+18	2.939E+18	2.299E+18	2.289E+18
	STPB1.5	1.839E+18	2.090E+18	2.071E+18	1.819E+18	2.080E+18	1.810E+18	1.542E+18	1.420E+18
	IPAB0.5	3.469E+18	4.367E+18	4.215E+18	3.427E+18	4.356E+18	3.389E+18	2.317E+18	2.663E+18

IPAB1.0	2.008E+18	2.291E+18	2.274E+18	1.984E+18	2.279E+18	1.975E+18	1.652E+18	1.545E+18
IPAB1.5	1.266E+18	1.417E+18	1.402E+18	1.258E+18	1.411E+18	1.249E+18	1.129E+18	9.920E+17
SBSB	2.497E+18	2.922E+18	2.882E+18	2.453E+18	2.910E+18	2.452E+18	1.934E+18	1.909E+18

Table S 23 Ranking of CW_{DCC} of PAV aged bitumens respect to each failure point (28 °C).

		Ranking of CW_{DCC} (T28 – PAV aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	4	1	3	5	2	6	7	8
	STPB0.5	4	1	3	5	2	6	8	7
	STPB1.0	4	1	3	5	2	6	7	8
	STPB1.5	4	1	3	5	2	6	7	8
	IPAB0.5	4	1	3	5	2	6	8	7
	IPAB1.0	4	1	3	5	2	6	7	8
	IPAB1.5	4	1	3	5	2	6	7	8
	SBSB	4	1	3	5	2	6	7	8

Table S 24 Ranking of CW_{SPC} of PAV aged bitumens respect to each failure point (28 °C).

		Ranking of CW_{SPC} (T28 – PAV aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	4	1	3	5	2	6	7	8
	STPB0.5	4	1	3	5	2	6	8	7
	STPB1.0	4	1	3	5	2	6	7	8
	STPB1.5	4	1	3	5	2	6	7	8
	IPAB0.5	4	1	3	5	2	6	8	7
	IPAB1.0	4	1	3	5	2	6	7	8
	IPAB1.5	4	1	3	5	2	6	7	8
	SBSB	4	1	3	5	2	6	7	8

Table S 25 CW_{DCC} of unaged bitumens at each failure point (31 °C).

		CW_{DCC} (T31 – unaged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	1.304E+08	1.563E+08	1.558E+08	1.427E+08	1.551E+08	1.407E+08	1.270E+08	1.542E+08
	STPB0.5	1.938E+08	2.648E+08	2.584E+08	2.271E+08	2.562E+08	2.227E+08	1.814E+08	2.796E+08
	STPB1.0	1.901E+08	2.564E+08	2.502E+08	2.211E+08	2.481E+08	2.169E+08	1.787E+08	2.690E+08
	STPB1.5	1.562E+08	1.988E+08	1.985E+08	1.744E+08	1.968E+08	1.717E+08	1.504E+08	1.975E+08
	IPAB0.5	1.920E+08	2.606E+08	2.543E+08	2.241E+08	2.522E+08	2.198E+08	1.801E+08	2.743E+08
	IPAB1.0	1.540E+08	1.945E+08	1.941E+08	1.717E+08	1.862E+08	1.690E+08	1.485E+08	1.938E+08
	IPAB1.5	1.200E+08	1.419E+08	1.416E+08	1.304E+08	1.411E+08	1.287E+08	1.173E+08	1.407E+08
	SBSB	1.103E+08	4.031E+08	3.894E+08	2.461E+08	3.863E+08	2.348E+08	3.640E+07	5.792E+08

Table S 26 CW_{SPC} of unaged bitumens at each failure point (31 °C).

		CW_{SPC} (T31 – unaged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	1.185E+16	1.646E+16	1.606E+16	1.242E+16	1.582E+16	1.209E+16	1.047E+16	1.435E+16
	STPB0.5	2.739E+16	4.920E+16	4.812E+16	3.368E+16	4.736E+16	3.236E+16	2.273E+16	5.019E+16
	STPB1.0	2.630E+16	4.599E+16	4.500E+16	3.181E+16	4.428E+16	3.060E+16	2.197E+16	4.617E+16
	STPB1.5	1.742E+16	2.605E+16	2.546E+16	1.911E+16	2.359E+16	1.852E+16	1.512E+16	2.375E+16
	IPAB0.5	2.685E+16	4.758E+16	4.655E+16	3.274E+16	4.581E+16	3.148E+16	2.236E+16	4.814E+16
	IPAB1.0	1.691E+16	2.511E+16	2.454E+16	1.847E+16	2.261E+16	1.791E+16	1.470E+16	2.279E+16
	IPAB1.5	9.922E+15	1.346E+16	1.311E+16	1.024E+16	1.293E+16	9.986E+15	8.811E+15	1.157E+16
	SBSB	9.358E+16	1.236E+17	1.179E+17	9.997E+16	1.170E+17	9.985E+16	8.716E+16	2.541E+17

Table S 27 Ranking of CW_{DCC} of unaged bitumens respect to each failure point (31 °C).

		Ranking of CW_{DCC} (T31 – unaged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	7	1	2	5	3	6	8	4
	STPB0.5	7	2	3	5	4	6	8	1
	STPB1.0	7	2	3	5	4	6	8	1
	STPB1.5	7	1	2	5	4	6	8	3
	IPAB0.5	7	2	3	5	4	6	8	1
	IPAB1.0	7	1	2	5	4	6	8	3
	IPAB1.5	7	1	2	5	3	6	8	4
	SBSB	7	2	3	5	4	6	8	1

Table S 28 Ranking of CW_{SPC} of unaged bitumens respect to each failure point (31 °C).

		Ranking of CW_{SPC} (T31 – unaged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	7	1	2	5	3	6	8	4
	STPB0.5	7	2	3	5	4	6	8	1
	STPB1.0	7	2	3	5	4	6	8	1
	STPB1.5	7	1	2	5	4	6	8	3
	IPAB0.5	7	2	3	5	4	6	8	1
	IPAB1.0	7	1	2	5	4	6	8	3
	IPAB1.5	7	1	2	5	3	6	8	4
	SBSB	7	2	3	5	4	6	8	1

Table S 29 CW_{DCC} of RTFO aged bitumens at each failure point (31 °C).

		CW_{DCC} (T31 – RTFO aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	2.953E+08	3.183E+08	3.175E+08	3.105E+08	3.086E+08	2.947E+08	2.783E+08	2.933E+08
	STPB0.5	3.519E+08	3.821E+08	3.810E+08	3.701E+08	3.684E+08	3.473E+08	3.224E+08	3.534E+08
	STPB1.0	3.465E+08	3.755E+08	3.745E+08	3.640E+08	3.623E+08	3.420E+08	3.181E+08	3.471E+08
	STPB1.5	3.343E+08	3.612E+08	3.602E+08	3.508E+08	3.489E+08	3.304E+08	3.086E+08	3.335E+08
	IPAB0.5	3.461E+08	3.756E+08	3.746E+08	3.641E+08	3.624E+08	3.421E+08	3.182E+08	3.472E+08
	IPAB1.0	3.242E+08	3.490E+08	3.481E+08	3.394E+08	3.375E+08	3.205E+08	3.003E+08	3.221E+08
	IPAB1.5	2.937E+08	3.161E+08	3.153E+08	3.085E+08	3.066E+08	2.929E+08	2.767E+08	2.913E+08
	SBSB	3.866E+08	4.332E+08	4.318E+08	4.164E+08	4.153E+08	3.862E+08	3.520E+08	4.032E+08

Table S 30 CW_{SPC} of RTFO aged bitumens at each failure point (31 °C).

		CW_{SPC} (T31 – RTFO aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	5.879E+16	6.481E+16	6.474E+16	6.271E+16	6.142E+16	5.863E+16	5.224E+16	5.834E+16
	STPB0.5	8.581E+16	9.737E+16	9.704E+16	9.310E+16	9.155E+16	8.556E+16	7.479E+16	8.925E+16
	STPB1.0	8.291E+16	9.367E+16	9.338E+16	8.969E+16	8.814E+16	8.259E+16	7.237E+16	8.563E+16
	STPB1.5	7.823E+16	8.587E+16	8.566E+16	8.246E+16	8.095E+16	7.625E+16	6.714E+16	7.810E+16
	IPAB0.5	8.299E+16	9.370E+16	9.342E+16	8.972E+16	8.817E+16	8.262E+16	7.239E+16	8.567E+16
	IPAB1.0	7.231E+16	7.956E+16	7.940E+16	7.657E+16	7.511E+16	7.104E+16	6.279E+16	7.210E+16
	IPAB1.5	5.788E+16	6.383E+16	6.376E+16	6.178E+16	6.051E+16	5.779E+16	5.153E+16	5.744E+16
	SBSB	1.101E+17	1.287E+17	1.279E+17	1.254E+17	1.238E+17	1.096E+17	9.349E+16	1.217E+17

Table S 31 Ranking of CW_{DCC} of RTFO aged bitumens respect to each failure point (31 °C).

		Ranking of CW_{DCC} (T31 – RTFO aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	5	1	2	3	4	6	8	7
	STPB0.5	6	1	2	3	4	7	8	5
	STPB1.0	6	1	2	3	4	7	8	5
	STPB1.5	5	1	2	3	4	7	8	6
	IPAB0.5	6	1	2	3	4	7	8	5
	IPAB1.0	5	1	2	3	4	7	8	6
	IPAB1.5	5	1	2	3	4	6	8	7
	SBSB	6	1	2	3	4	7	8	5

Table S 32 Ranking of CW_{SPC} of RTFO aged bitumens respect to each failure point (31 °C).

		Ranking of CW_{SPC} (T31 – RTFO aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB

At the failure point of:	NA	5	1	2	3	4	6	8	7
	STPB0.5	6	1	2	3	4	7	8	5
	STPB1.0	6	1	2	3	4	7	8	5
	STPB1.5	5	1	2	3	4	7	8	6
	IPAB0.5	6	1	2	3	4	7	8	5
	IPAB1.0	5	1	2	3	4	7	8	6
	IPAB1.5	5	1	2	3	4	6	8	7
	SBSB	6	1	2	3	4	7	8	5

Table S 33 CW_{DCC} of PAV aged bitumens at each failure point (31 °C).

		CW_{DCC} (T31 – PAV aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	3.552E+08	4.114E+08	4.153E+08	3.731E+08	4.110E+08	3.749E+08	3.339E+08	3.133E+08
	STPB0.5	4.323E+08	5.403E+08	5.483E+08	4.726E+08	5.397E+08	4.767E+08	4.020E+08	3.879E+08
	STPB1.0	4.348E+08	5.458E+08	5.540E+08	4.764E+08	5.451E+08	4.807E+08	4.042E+08	3.907E+08
	STPB1.5	3.689E+08	4.315E+08	4.358E+08	3.894E+08	4.310E+08	3.915E+08	3.462E+08	3.259E+08
	IPAB0.5	4.336E+08	5.432E+08	5.513E+08	4.746E+08	5.426E+08	4.788E+08	4.031E+08	3.894E+08
	IPAB1.0	3.938E+08	4.702E+08	4.756E+08	4.201E+08	4.697E+08	4.228E+08	3.684E+08	3.492E+08
	IPAB1.5	3.334E+08	3.809E+08	3.840E+08	3.479E+08	3.805E+08	3.493E+08	3.141E+08	2.936E+08
	SBSB	4.098E+08	4.974E+08	5.037E+08	4.410E+08	4.968E+08	4.442E+08	3.826E+08	3.648E+08

Table S 34 CW_{SPC} of PAV aged bitumens at each failure point (31 °C).

		CW_{SPC} (T31 – PAV aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	9.206E+16	1.154E+17	1.161E+17	1.000E+17	1.146E+17	1.021E+17	8.542E+16	8.042E+16
	STPB0.5	1.525E+17	2.170E+17	2.213E+17	1.740E+17	2.158E+17	1.822E+17	1.458E+17	1.421E+17
	STPB1.0	1.552E+17	2.219E+17	2.269E+17	1.774E+17	2.211E+17	1.861E+17	1.481E+17	1.452E+17
	STPB1.5	1.008E+17	1.288E+17	1.296E+17	1.104E+17	1.277E+17	1.130E+17	9.331E+16	8.876E+16
	IPAB0.5	1.540E+17	2.193E+17	2.243E+17	1.758E+17	2.186E+17	1.842E+17	1.461E+17	1.438E+17
	IPAB1.0	1.185E+17	1.568E+17	1.583E+17	1.318E+17	1.556E+17	1.357E+17	1.088E+17	1.061E+17
	IPAB1.5	7.928E+16	9.634E+16	9.737E+16	8.509E+16	9.623E+16	8.656E+16	7.380E+16	6.856E+16
	SBSB	1.314E+17	1.789E+17	1.810E+17	1.477E+17	1.774E+17	1.529E+17	1.198E+17	1.193E+17

Table S 35 Ranking of CW_{DCC} of PAV aged bitumens respect to each failure point (31 °C).

		Ranking of CW_{DCC} (T31 – PAV aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure	NA	6	2	1	5	3	4	7	8
	STPB0.5	6	2	1	5	3	4	7	8
	STPB1.0	6	2	1	5	3	4	7	8

point of:	STPB1.5	6	2	1	5	3	4	7	8
	IPAB0.5	6	2	1	5	3	4	7	8
	IPAB1.0	6	2	1	5	3	4	7	8
	IPAB1.5	6	2	1	5	3	4	7	8
	SBSB	6	2	1	5	3	4	7	8

Table S 36 Ranking of CW_{SPC} of PAV aged bitumens respect to each failure point (31 °C).

		Ranking of CW_{SPC} (T31 – PAV aged bitumen)							
		NA	STPB0.5	STPB1.0	STPB1.5	IPAB0.5	IPAB1.0	IPAB1.5	SBSB
At the failure point of:	NA	6	2	1	5	3	4	7	8
	STPB0.5	6	2	1	5	3	4	7	8
	STPB1.0	6	2	1	5	3	4	7	8
	STPB1.5	6	2	1	5	3	4	7	8
	IPAB0.5	6	2	1	5	3	4	7	8
	IPAB1.0	6	2	1	5	3	4	7	8
	IPAB1.5	6	2	1	5	3	4	7	8
	SBSB	6	2	1	5	3	4	7	8

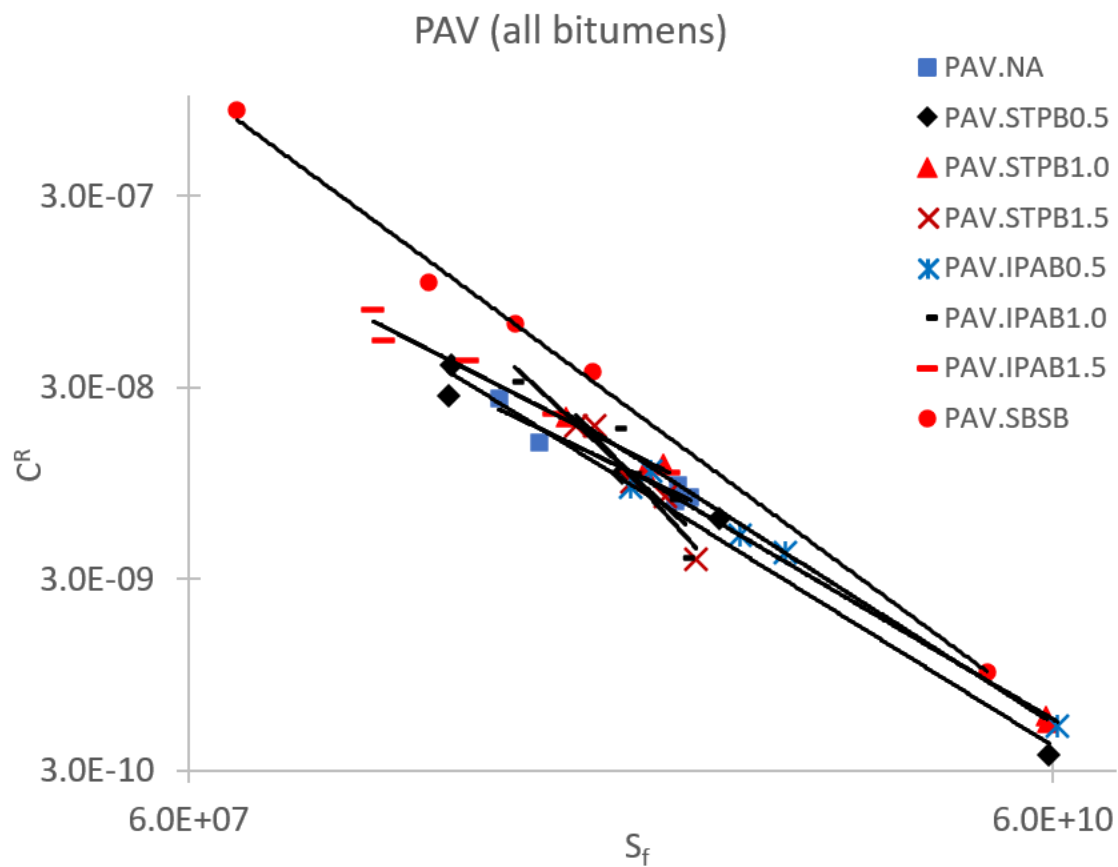


Figure. S 12 C^R vs S_f graph of all PAV aged bitumens.