



MC 250 CUTBACK

Test	Cutback 1996				Cutback 1997				Cutback 1998				Cutback 1999			
		1	2	3		1	2	3		1	2	3		1	2	3
	Average	S _x	S _r	S _R	Average	S _x	S _r	S _R	Average	S _x	S _r	S _R	Average	S _x	S _r	S _R
201 - Kinematic Viscosity @ 60°C (mm ² /s)	368	53	26	56	350	13	12	16	409	21	15	24	391	16	19	23
202 - Flash Point, Tag (°C)	74	9.8	2.7	9.9	75	10.6	2.9	10.9	83	6.1	3.4	6.7	82	6.7	1.8	6.9
203 - Specific Gravity @ 15.6°C	0.974	0.0025	0.0028	0.0032	0.975	0.0080	0.0033	0.0084	0.976	0.0054	0.0018	0.0056	0.977	0.0052	0.0027	0.0057
204 - Volume of Distillate to 190°C (mL)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
205 - Volume of Distillate to 225°C (mL)	0.5	1.2	0.26	1.2	0.5	0.7	0.27	0.7	0.5	0.7	0.27	0.7	1.0	1.7	0.95	1.9
206 - Volume of Distillate to 260°C (mL)	15.0	2.4	1.0	2.5	18.8	2.7	1.0	2.8	13.5	1.4	0.7	1.5	17.0	4.6	2.7	5.1
207 - Volume of Distillate to 316°C (mL)	39.5	3.4	1.2	3.5	38.7	1.7	0.6	1.8	37.7	1.8	1.0	2.0	38.2	1.9	1.3	2.2
208 - Volume of Distillate to 360°C (mL)	52.5	2.1	1.4	2.3	46.2	1.6	0.7	1.7	52.2	2.4	1.5	2.7	51.8	2.1	1.4	2.4
209 - Percent by Volume of Total Distillate to 360°C to 190°C (%)	0.0	0.0024	0.0000	0.0024	0.0	0.0000	0.0000	0.0000	0.0	0.0000	0.0000	0.0000	0.0	0.0000	0.0000	0.0000
210 - Percent by Volume of Total Distillate to 360°C to 225°C (%)	6.5	23	0.45	23	1.1	2	0.63	2	0.9	1	0.55	1	2.0	3	1.94	4
211 - Percent by Volume of Total Distillate to 360°C to 260°C (%)	32.5	15	1.5	15	32.3	10	1.7	10	25.6	2	0.9	3	32.5	7	3.7	8
212 - Percent by Volume of Total Distillate to 360°C to 316°C (%)	75.0	2.5	0.76	2.6	78.8	18.1	1.10	18.2	72.3	1.5	1.26	1.8	73.8	3.0	1.83	3.3
213 - Percent by Volume of Total Distillate to 360°C to 360°C (%)	96.5	9.1	0.13	9.1	85.9	31.3	0.07	31.3	100.0	0.0	0.00	0.0	100.0	0.0	0.00	0.0
214 - Residue % by Volume of Original Sample to 360°C (%)	74.0	1.1	0.70	1.2	76.8	0.8	0.35	0.9	73.9	1.2	0.74	1.3	74.1	1.1	0.68	1.2
215 - Penetration of Residue @ 25°C, 100g, 5s (dmm)	190	34	21	37	199	22	9	23	201	38	10	39	182	21	6	21

Legend

- 1 Standard Deviation
- 2 Repeatability Standard Deviation
- 3 Reproducibility Standard Deviation
- 4 95% Confidence Limits for Repeatability (k-stat)
- 5 95% Confidence Limits for Reproducibility (h-stat)

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