



HF150S EMULSION

Test	EMIULSIFIED ASPAHLT 1996				EMIULSIFIED ASPAHLT 1997				EMIULSIFIED ASPAHLT 1998				EMIULSIFIED ASPAHLT 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
301 - Saybolt-Furol Viscosity @ 50°C (s)	87.8	15	8.8	16	68.6	8	4.3	8	37.4	5	2.9	6	37.8	9	5.7	10
302 - Residue by Distillation (% by mass)	67.0	0.76	0.92	1.0	65.3	1.49	0.51	1.5	63.3	0.38	0.44	0.5	62.7	0.53	0.64	0.7
303 - Total Distillation Time (minutes)	61	5.6	3.0	6.0	64	13.8	3.8	14.0	60	5.4	3.5	6.1	61	5.3	4.1	6.3
304 - Oil Portion of Distillate (% by Volume of Emulsion)	1.2	0.33	0.23	0.37	1.2	0.28	0.08	0.29	1.2	0.24	0.22	0.30	1.1	0.24	0.20	0.29
305 - Demulsibility, 50 mL, 5.55 g/CaCl ₂ (% by Mass)	95.8	6.2	1.0	6.2	94.8	10.2	1.2	10.3	89.1	7.6	3.3	8.1	82.9	8.3	2.7	8.5
306 - Penetration of Residue @ 25°C, 100g, 5s (dmm)	179	23	8.4	24	218	15	8.3	16	171	14	10.1	17	165	15	7.4	16
307 - Residue Conditioning Time in Air (minutes)	92	6.7	0.31	6.7	90	1.3	0.38	1.4	89	12.3	7.13	13.6	0	0.0	0.00	0.0
308 - Residue Conditioning Time in Water Bath (minutes)	91	4.4	0.99	4.5	91	1.9	2.34	2.5	88	10.3	1.91	10.4	90	0.3	0.76	0.8
309 - Apparent Viscosity @ 60°C (Pa•s)	183	62	14	63	151	24	8	25	251	27	40	42	299	41	24	45

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)

DISCLAIMER

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