Mass of forer Hydrometer repl manual for pos protocol 8 2021-06-05

Ready 2 only

$$N_{m} = 0.6226 \times \left(\frac{G_{5}}{(G_{5}-1)}\right) \times \left(\frac{V_{FP}}{M_{ol}}\right) \times \left(\frac{V_{m}-V_{d,m}}{V_{obs}}\right) \times \frac{100}{1000}$$

Effective depth

$$H_{m} = H_{12} + \left(\frac{(Hr_1 - Hr_2)}{(r_2 - r_1)} \times (r_2 - r_m + c_m)\right) - \left(\frac{v_{nb}}{z_{dc}}\right)$$

$$= 8.6 + \left(\frac{20.3-8.6}{60-(-5)} \times (60-11.75+1.0) \right) - \frac{2\times 26.1}{2\times 26.1}$$

$$= 8.6 + \left(\frac{11.7}{65} \times 49.25\right) - 1.05769$$

$$= 8.6 + (0.18 \times 49.25) - 1.058$$
$$= 8.6 + 8.865 - (.058)$$

V & 5745 16.411 + this seems resided = it's close to Profes 16.6323

Maxim particle directer in suspension

$$D_{m} = \sqrt{\frac{18 M}{P_{M} g(G_{5}-1)}} \times \frac{Hm}{tm} \times 10$$

$$D_{m} = \sqrt{\frac{18 \times 0.00966}{0.9921 \times 980.7 \times 1.7}} \times \frac{16.407}{75120} \times 10$$

$$D_{m} = \sqrt{\frac{0.17388}{1664.2057}} \times 0.0002184 \times 10$$

$$D_{m} = \sqrt{\frac{0.001045 \times 0.0002184}{0.0002184}} \times 10$$

Try for larger director also:

= J0.00000002282 × 10

$$N_{\text{M}} = 0.626 \times 1.588 \times \frac{1000}{49.797} \times \left(13-6.25\right) \times \frac{100}{1000} = 13.7510$$

$$|+_{\text{M}} = 3.6 + \left(\frac{20.3-8.6}{60-(-5)} \times \left(60-13+1.0\right)\right) \cdot \frac{55}{2\times26.1}$$

$$= 8.6 + 8.64 - 1.058 = 16.182$$

$$D_{m} = \sqrt{\frac{18 \times 0.00966}{0.99821 \times 980.7 \times 1.7}} \times \frac{16.182}{15660} \times 10^{-5}$$