## [Test Result]

$$\text{Eng. HP} = \frac{\frac{\text{Volt X Amps}}{700}}{(a)*(x)*(y)*(z)} + \text{Aux HP}$$

(a) is Correction Factor of Intake Air
(X) is Correction Factor of Fuel density
(Y) is Correction Factor of Fuel Temperature
(Z) is Correction Factor of an Latitude

| Before Test | | After Test | |
|---|---|---|---|
| **1. Correction Factor** | | **1. Correction Factor** | |
| 1) Air Temp. Correction Factor | | 1) Air Temp. Correction Factor | |
| Ventilator Temp. Correction Factor a | | Ventilator Temp. Correction Factor a | |
| Input Data (℃) | 29 ℃ | Input Data (℃) | 12 ℃ |
| Conversed Data(°F) | 84.2 °F | Conversed Data(°F) | 53.6 °F |
| Correction Value 1 | 0.9786 | Correction Value 1 | 1.0056 |
| Intaken Air Temp. Correction Factor a | | Intaken Air Temp. Correction Factor a | |
| Input Data (℃) | 34 ℃ | Input Data (℃) | 17 ℃ |
| Conversed Data(°F) | 93.2 °F | Conversed Data(°F) | 62.6 °F |
| Correction Value 2 | 1.052 | Correction Value 2 | 1.0859 |
| Final Correction Value (a) | 0.9786 | Final Correction Value (a) | 1.0056 |
| 2) Sea Level Correction Factor | | 2) Sea Level Correction Factor | |
| Input Data (m) | 500 m | Input Data (m) | 500 m |
| Conversed Data(ft) | 1640.4 ft | Conversed Data(ft) | 1640.4 ft |
| Correction Value (z) | 0.9936 | Correction Value (z) | 0.9936 |
| 3) Fuel Density Correction Factor | | 3) Fuel Density Correction Factor | |
| Input Data (m) | 0.8326 | Input Data (m) | 0.8445 |
| Correction Value (x) | 0.9914 | Correction Value (x) | 0.9997 |
| 4) Fuel Temp. Correction Factor | | 4) Fuel Temp. Correction Factor | |
| Input Data (℃) | 25 ℃ | Input Data (℃) | 15 ℃ |
| Conversed Data(°F) | 77 °F | Conversed Data(°F) | 59 °F |
| Correction Value (y) | 0.9915 | Correction Value (y) | 1.0005 |
| **2. Locomotive Horse Power** | | **2. Locomotive Horse Power** | |
| 1) HP driven Assistive Device | 199 Hp | 1) HP driven Assistive Device | 199 Hp |
| 2) An electric pressure (V) | 800 V | 2) An electric pressure (V) | 840 V |
| 3) An electric Current (A) | 2430 A | 3) An electric Current (A) | 2550 A |
| 4) Total Horse power | 3114 Hp | 4) Total Horse power | 3261 Hp |
| 5) Average Traction Horse power | 2915 Hp | 5) Average Traction Horse power | 3062 Hp |