信管14-2 140614406 阙琨洋

轴承修理问题

100次模拟后总成本结果

第一次坏1换1方案模拟结果

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 时间(小时) | 等待工人时间(分钟) | 停工时间(分钟) | 累计成本 | 新寿命 |
| 1100 | 5 | 20 | 882 | 300/400/1400 |
| 1400.416667 | 5 | 20 | 1764 | 1700/100/1100 |
| 1500.833333 | 5 | 20 | 2646 | 1600/1500/1000 |
| 2501.25 | 10 | 20 | 3578 | 600/500/1500 |
| 3001.75 | 10 | 20 | 4510 | 100/1100/1000 |
| 3102.25 | 5 | 20 | 5392 | 1400/1000/900 |
| 4002.666667 | 5 | 20 | 6274 | 500/100/1300 |
| 4103.083333 | 15 | 20 | 7256 | 400/1300/1200 |
| 4503.666667 | 5 | 20 | 8138 | 1300/900/800 |
| 5304.083333 | 10 | 20 | 9070 | 500/100/1800 |
| 5404.583333 | 5 | 20 | 9952 | 400/1200/1700 |
| 5805 | 10 | 20 | 10884 | 1500/800/1300 |
| 6605.5 | 10 | 20 | 11816 | 700/1400/500 |
| 7106 | 10 | 20 | 12748 | 200/900/1200 |
| 7306.5 | 5 | 20 | 13630 | 1400/700/1000 |
| 8006.916667 | 5 | 20 | 14512 | 700/1400/300 |
| 8307.333333 | 5 | 20 | 15394 | 400/1100/1500 |
| 8707.75 | 5 | 20 | 16276 | 1200/700/1100 |
| 9408.166667 | 10 | 20 | 17208 | 500/1300/400 |
| 9808.666667 | 5 | 20 | 18090 | 100/900/1100 |
| 9909.083333 | 5 | 20 | 18972 | 1500/800/1000 |
| 10709.5 | 5 | 20 | 19854 | 700/1200/200 |
| 10909.91667 | 10 | 20 | 20786 | 500/1000/1200 |
| 11410.41667 | 5 | 20 | 21668 | 1200/500/700 |
| 11910.83333 | 5 | 20 | 22550 | 700/1800/200 |
| 12111.25 | 10 | 20 | 23482 | 500/1600/1300 |
| 12611.75 | 10 | 20 | 24414 | 1300/1100/800 |
| 13412.25 | 10 | 20 | 25346 | 500/300/1800 |
| 13712.75 | 10 | 20 | 26278 | 200/1600/1500 |
| 13913.25 | 5 | 20 | 27160 | 1000/1400/1300 |
| 14913.66667 | 5 | 20 | 28042 | 1200/400/300 |
| 15214.08333 | 5 | 20 | 28924 | 900/100/1200 |
| 15314.5 | 5 | 20 | 29806 | 800/1300/1100 |
| 16114.91667 | 5 | 20 | 30688 | 1900/500/300 |
| 16415.33333 | 15 | 20 | 31670 | 1600/200/1700 |
| 16615.91667 | 5 | 20 | 32552 | 1400/1600/1500 |
| 18016.33333 | 5 | 20 | 33434 | 1700/200/100 |
| 18116.75 | 5 | 20 | 34316 | 1600/100/1500 |
| 18217.16667 | 5 | 20 | 35198 | 1500/1300/1400 |
| 19517.58333 | 10 | 20 | 36130 | 200/1500/100 |
| 19618.08333 | 5 | 20 | 37012 | 100/1400/1200 |
| 19718.5 | 5 | 20 | 37894 | 1200/1300/1100 |

第一次坏1换3模拟方案结果：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 时间(小时) | 等待工人时间(分钟) | 停工时间(分钟) | 累计成本 | 新寿命 |
| 1100 | 5 | 40 | 1746 | 1700/1000/1900 |
| 2100.75 | 5 | 40 | 3492 | 1600/1500/1200 |
| 3301.5 | 10 | 40 | 5288 | 1500/1500/1500 |
| 4802.333333 | 5 | 40 | 7034 | 1000/1100/1500 |
| 5803.083333 | 10 | 40 | 8830 | 1200/1600/1700 |
| 7003.916667 | 5 | 40 | 10576 | 1400/1500/1200 |
| 8204.666667 | 5 | 40 | 12322 | 1800/1000/1300 |
| 9205.416667 | 10 | 40 | 14118 | 1900/1200/1500 |
| 10406.25 | 10 | 40 | 15914 | 1300/1000/1000 |
| 11407.08333 | 5 | 40 | 17660 | 1500/1600/1900 |
| 12907.83333 | 5 | 40 | 19406 | 1000/1200/1200 |
| 13908.58333 | 5 | 40 | 21152 | 1800/1200/1700 |
| 15109.33333 | 10 | 40 | 22948 | 1200/1100/1500 |
| 16210.16667 | 5 | 40 | 24694 | 1100/1300/1000 |
| 17210.91667 | 5 | 40 | 26440 | 1900/1800/1200 |
| 18411.66667 | 5 | 40 | 28186 | 1200/1100/1500 |
| 19512.41667 | 10 | 40 | 29982 | 1800/1500/1700 |