

repair dummy_v3.4.xls

Sheet 1

| Machine ID | Size | Last repair cycle (weeks) | Acceptable variance forward (weeks) | Time since last repair (weeks) | Number of parts required | Does machine require repair at date specified? | |
|------------|------|---------------------------|-------------------------------------|--------------------------------|--------------------------|--|---|
| A | 52 | 30/0012 | 0 | 1 | 4 | 1.500 | 0 |
| B | 78 | 1/27/0012 | 8 | 1 | 10 | 2.340 | 0 |
| C | 89 | 3/6/0012 | 8 | 1 | 4 | 2.610 | 0 |
| D | 65 | 3/6/0012 | 8 | 1 | 4 | 1.950 | 0 |
| E | 92 | 3/2/0012 | 8 | 1 | 5 | 2.760 | 0 |
| A | 89 | 3/2/0012 | 8 | 1 | 5 | 2.070 | 0 |
| B | 57 | 3/2/0012 | 8 | 1 | 5 | 1.710 | 0 |
| C | 89 | 2/24/0012 | 8 | 1 | 6 | 1.710 | 0 |
| D | 42 | 1/20/0012 | 8 | 1 | 11 | 1.260 | 0 |
| E | 78 | 2/24/0012 | 8 | 1 | 6 | 2.340 | 0 |
| F | 71 | 2/24/0012 | 8 | 1 | 6 | 2.130 | 0 |
| G | 54 | 2/17/0012 | 8 | 1 | 7 | 1.250 | 1 |
| H | 94 | 2/17/0012 | 8 | 1 | 7 | 2.300 | 1 |
| I | 61 | 1/27/0012 | 8 | 1 | 10 | 1.830 | 0 |
| J | 99 | 2/17/0012 | 8 | 1 | 7 | 1.260 | 1 |
| K | 58 | 2/10/0012 | 8 | 1 | 8 | 1.250 | 1 |
| L | 77 | 2/10/0012 | 8 | 1 | 8 | 2.310 | 1 |
| M | 110 | 2/3/0012 | 8 | 1 | 9 | 3.300 | 1 |
| N | 145 | 2/3/0012 | 8 | 1 | 7 | 4.350 | 1 |
| O | 93 | 3/6/0012 | 8 | 1 | 5 | 2.790 | 0 |
| P | 60 | 2/9/0012 | 8 | 1 | 8 | 1.250 | 1 |

| ARRSEL() As UTsingleDATAused | | |
|------------------------------|---------|------|
| MACHid | WASTAGE | USED |
| G | 1.250 | |
| H | 2.300 | |

| ARRREMAIN() As UTsingleDATA | |
|-----------------------------|---------|
| MACHid | WASTAGE |
| G | 1.250 |
| H | 2.300 |

| ARRGROUPS() As UTgroupDATA | | | | | | | |
|----------------------------|----------|---------|----------|---------|----------|---------|----------|
| MACHid1 | WASTAGE1 | MACHid2 | WASTAGE2 | MACHid3 | WASTAGE3 | MACHid4 | WASTAGE4 |
| G | 1.250 | H | 2.300 | J | 1.25 | K | 2.25 |
| A | 1.350 | C | 3.300 | D | 1.5 | O | 4.8 |

| ARRDUMP() As Variant | |
|----------------------|------|
| G | 1.25 |
| J | 1.25 |
| K | 1.25 |
| P | 1.25 |
| Total | 5 |
| H | 2.3 |
| L | 2.31 |
| M | 3.3 |

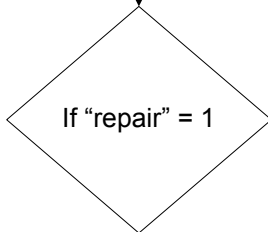
Sheet 3

| | A | B |
|---|-------|-------|
| 1 | G | 1.25 |
| 2 | J | 1.25 |
| 3 | K | 1.25 |
| 4 | P | 1.25 |
| 5 | Total | 5 |
| 6 | | |
| 7 | H | 2.3 |
| 8 | L | 2.31 |
| 9 | M | 3.3 |
| 0 | N | 4.35 |
| 1 | Total | 12.26 |
| 2 | | |

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'\$ collect data

Sheet 1

| Machine ID | Size | Last repair | Acceptable variance | Time since last repair | Number of parts required | Does machine require repair at date specified? | |
|------------|------|-------------|---------------------|------------------------|--------------------------|--|---|
| A | 52 | 3/6/2012 | 8 | 1 | 4 | 1,560 | 0 |
| B | 78 | 1/27/2012 | 8 | 1 | 10 | 2,340 | 0 |
| C | 89 | 3/6/2012 | 8 | 1 | 4 | 2,670 | 0 |
| D | 65 | 3/6/2012 | 8 | 1 | 4 | 1,950 | 0 |
| E | 92 | 3/2/2012 | 8 | 1 | 5 | 2,760 | 0 |
| A | 69 | 3/2/2012 | 8 | 1 | 5 | 2,070 | 0 |
| B | 57 | 3/2/2012 | 8 | 1 | 5 | 1,710 | 0 |
| C | 59 | 2/24/2012 | 8 | 1 | 6 | 1,770 | 0 |
| D | 42 | 1/28/2012 | 8 | 1 | 11 | 1,360 | 0 |
| L | 76 | 2/24/2012 | 8 | 1 | 6 | 2,440 | 0 |
| F | 71 | 2/24/2012 | 8 | 1 | 6 | 2,130 | 0 |
| G | 64 | 2/17/2012 | 8 | 1 | 7 | 1,250 | 1 |
| H | 94 | 2/17/2012 | 8 | 1 | 7 | 2,300 | 1 |
| I | 61 | 1/27/2012 | 8 | 1 | 10 | 1,930 | 0 |
| J | 99 | 2/17/2012 | 8 | 1 | 7 | 1,250 | 1 |
| K | 58 | 2/16/2012 | 8 | 1 | 8 | 1,250 | 1 |
| L | 77 | 2/16/2012 | 8 | 1 | 8 | 2,310 | 1 |
| M | 110 | 2/5/2012 | 8 | 1 | 9 | 3,300 | 1 |
| N | 145 | 2/5/2012 | 8 | 1 | 9 | 4,350 | 1 |
| O | 93 | 3/6/2012 | 8 | 1 | 4 | 2,760 | 0 |
| P | 60 | 2/5/2012 | 8 | 1 | 9 | 1,250 | 1 |

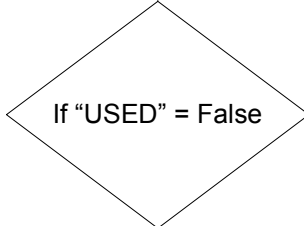


| ARRSEL() As UTsingleDATAused | | |
|------------------------------|---------|------|
| MACHid | WASTAGE | USED |
| G | 1.250 | |
| H | 2.300 | |

| | | |
|---|------|--|
| J | 1.25 | |
|---|------|--|

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Function Collect_Remains()

| ARRSEL() As UTsingleDATAused | | |
|------------------------------|---------|-------|
| MACHid | WASTAGE | USED |
| G | 1.250 | FALSE |
| H | 2.300 | TRUE |
| J | 1.25 | FALSE |



| ARRREMAIN() As UTsingleDATA | |
|-----------------------------|---------|
| MACHid | WASTAGE |
| G | 1.250 |
| H | 2.300 |

| | |
|---|------|
| J | 1.25 |
|---|------|

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'\$ make groups

| ARRREMAIN() As UTsingleDATA | |
|-----------------------------|---------|
| MACHid | WASTAGE |
| G | 1.250 |
| H | 2.300 |

| ARRGROUPS() As UTgroupDATA | | | | | | | |
|----------------------------|----------|---------|----------|---------|----------|---------|----------|
| MACHid1 | WASTAGE1 | MACHid2 | WASTAGE2 | MACHid3 | WASTAGE3 | MACHid4 | WASTAGE4 |
| G | 1.250 | H | 2.300 | J | 1.25 | K | 2.25 |
| A | 1.350 | C | 3.300 | D | 1.5 | O | 4.8 |

| | | | | | | | |
|---|-------|---|-------|---|-----|---|-----|
| E | 1.350 | F | 1.300 | L | 2.5 | M | 3.8 |
|---|-------|---|-------|---|-----|---|-----|

If GROUPfrac > BESTfrac

'\$ set used records OFF in ARRSEL

| ARRSEL() As UTsingleDATAused | | |
|------------------------------|---------|-------|
| MACHid | WASTAGE | USED |
| G | 1.250 | FALSE |
| H | 2.300 | TRUE |
| J | 1.25 | FALSE |

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'\$ dump data

| ARRGROUPS() As UTgroupDATA | | | | | | | |
|----------------------------|----------|---------|----------|---------|----------|---------|----------|
| MACHid1 | WASTAGE1 | MACHid2 | WASTAGE2 | MACHid3 | WASTAGE3 | MACHid4 | WASTAGE4 |
| G | 1.250 | H | 2.300 | J | 1.25 | K | 2.25 |
| A | 1.350 | C | 3.300 | D | 1.5 | O | 4.8 |

'\$ transform ARRGROUPS to 2D array

| ARRDUMP() As Variant | |
|----------------------|------|
| G | 1.25 |
| J | 1.25 |
| K | 1.25 |
| P | 1.25 |
| Total | 5 |
| H | 2.3 |
| L | 2.31 |
| M | 3.3 |

| | A | B |
|----|-------|-------|
| 1 | G | 1.25 |
| 2 | J | 1.25 |
| 3 | K | 1.25 |
| 4 | P | 1.25 |
| 5 | Total | 5 |
| 6 | | |
| 7 | H | 2.3 |
| 8 | L | 2.31 |
| 9 | M | 3.3 |
| 10 | N | 4.35 |
| 11 | Total | 12.26 |
| 12 | | |

'\$ dump to sheet3