

Pattern Information

| | |
|---------------------|------------|
| Date | 4-Oct-2021 |
| Pattern Type | SPORT |
| Pattern Difficulty | HIGH |
| Pattern Volume (ml) | 22,00 |

Pattern Parameters

| | |
|---------------------|-----------|
| Split Pattern | No |
| Pattern Name | NORWAY 21 |
| Start Cleaner Spray | 0 |
| Start Squeegee | 0 |
| Start Oiling | 6 |

Supplies Information

| | |
|----------------------------|-------------------|
| Lane Cleaner | Brunswick MAX 20 |
| Cleaner Mixture Ratio | 20 : 1 |
| Cleaner Spray End Distance | 53 |
| Lane Conditioner | Brunswick Connect |

Surface Information

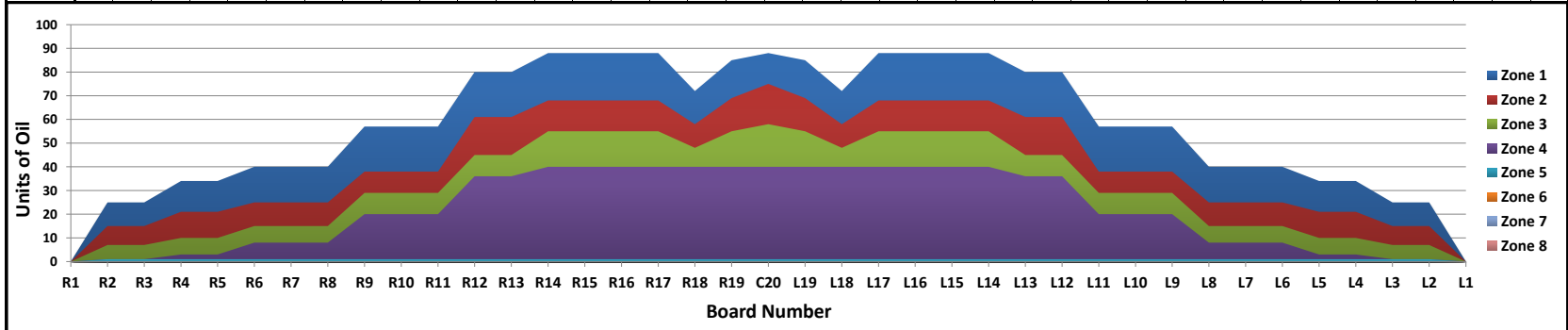
| | |
|---------------|--|
| Surface Type | |
| Surface Brand | |
| Age | |

| | | |
|--------------|---------|------------------------|
| SPORT | <4 : 1 | USBC Ratio Definitions |
| CHALLENGE | 4-8 : 1 | |
| RECREATIONAL | >8 : 1 | |

Notes

| Zone | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Pattern Ratio by Volume (3-7:18-18) |
|-------------------|-----------|---------|---------|---------|---------|------|---|---|-------------------------------------|
| Zone End Distance | 12,5 | 19,5 | 26 | 32 | 35 | 40 | | | |
| Zone Ratio | L 2,3 : 1 | 3,0 : 1 | 4,6 : 1 | 8,6 : 1 | 1,0 : 1 | : | : | : | L 3,00 :1 |
| | R 2,3 : 1 | 3,0 : 1 | 4,6 : 1 | 8,6 : 1 | 1,0 : 1 | : | : | : | R 3,00 :1 |
| Zone Volume (ml) | 11,76 | 4,81 | 3,31 | 2,12 | 0,00 | 0,00 | | | |

| ZONE | 7 Pin Side | | | | | | | | | | | Board Number | | | | | | | | | | 10 Pin Side | | | | | | | | | | | | | | | | | |
|------|------------|----|----|----|----|----|----|----|----|-----|-----|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
| | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 | L11 | L12 | L13 | L14 | L15 | L16 | L17 | L18 | L19 | C20 | R19 | R18 | R17 | R16 | R15 | R14 | R13 | R12 | R11 | R10 | R9 | R8 | R7 | R6 | R5 | R4 | R3 | R2 | R1 |
| 1 | 0 | 25 | 25 | 34 | 34 | 40 | 40 | 40 | 57 | 57 | 57 | 80 | 80 | 88 | 88 | 88 | 88 | 72 | 85 | 88 | 85 | 72 | 88 | 88 | 88 | 88 | 80 | 80 | 57 | 57 | 57 | 40 | 40 | 40 | 34 | 34 | 25 | 25 | 0 |
| 2 | 0 | 15 | 15 | 21 | 21 | 25 | 25 | 25 | 38 | 38 | 38 | 61 | 61 | 68 | 68 | 68 | 68 | 58 | 69 | 75 | 69 | 58 | 68 | 68 | 68 | 68 | 61 | 61 | 38 | 38 | 38 | 25 | 25 | 25 | 21 | 21 | 15 | 15 | 0 |
| 3 | 0 | 7 | 7 | 10 | 10 | 15 | 15 | 15 | 29 | 29 | 29 | 45 | 45 | 55 | 55 | 55 | 55 | 48 | 55 | 58 | 55 | 48 | 55 | 55 | 55 | 55 | 45 | 45 | 29 | 29 | 29 | 15 | 15 | 15 | 10 | 10 | 7 | 7 | 0 |
| 4 | 0 | 1 | 1 | 3 | 3 | 8 | 8 | 8 | 20 | 20 | 20 | 36 | 36 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 36 | 36 | 20 | 20 | 20 | 8 | 8 | 8 | 3 | 3 | 1 | 1 | 0 |
| 5 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |





DIRECT+
Conditioning System

ENVOY ENVOY+
AUTHORITY22

NORWAY 21

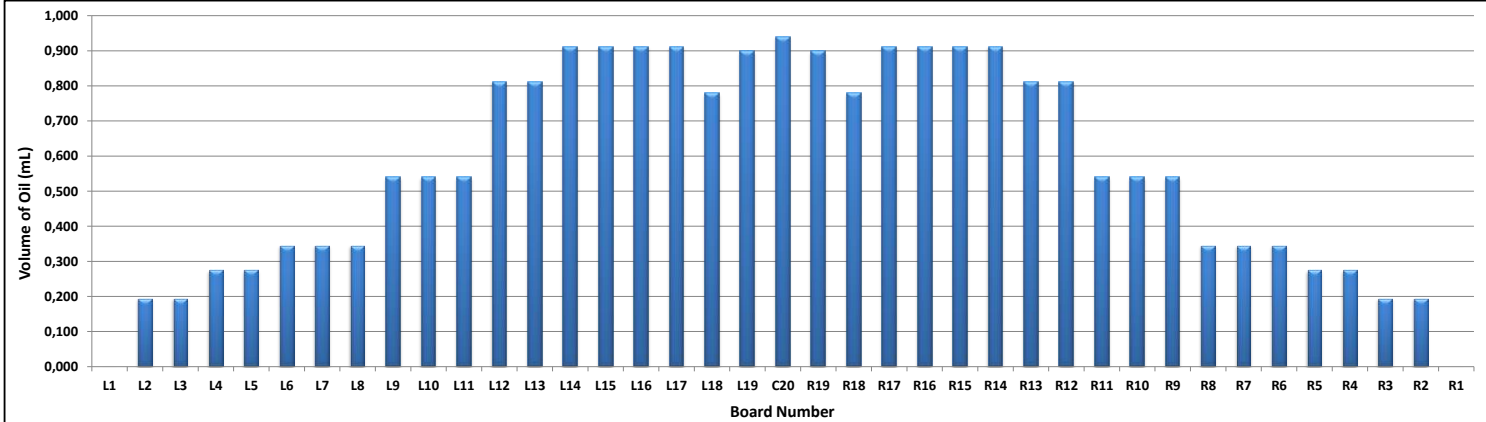
Crosswise Ratios (by units)

| Zone 1 | | | Zone 2 | | | Zone 3 | | | Zone 4 | | | Zone 5 | | | Zone 6 | | | Zone 7 | | | Zone 8 | | | | | | | | |
|---------|---------------|-------|---------|--------------|-------|---------|--------------|-------|---------|---------------|-------|---------|-------------|-------|---------|-------------|-------|---------|---------------|-------|---------|----------------|-------|---------|---------------|--|---------|---------------|--|
| | Average | Ratio | | Average | Ratio | | Average | Ratio | | Average | Ratio | | Average | Ratio | | Average | Ratio | | Average | Ratio | | Average | Ratio | | | | | | |
| 3L-7L | Left = 34,6 | 2,3 | 3L-7L | Left = 1,0 | 1,0 | 3L-7L | Left = 11,4 | 4,6 | 3L-7L | Left = 4,6 | 8,6 | 3L-7L | Left = 1,0 | 1,0 | 3L-7L | Left = 0,0 | | 3L-7L | Left = 0,031 | 4,6 | 3L-7L | Left = 0,000 | | 3L-7L | Left = 0,000 | | | | |
| 3R-7R | Right= 34,6 | 2,3 | 3R-7R | Right= 21,4 | 3,0 | 3R-7R | Right= 11,4 | 4,6 | 3R-7R | Right= 4,6 | 8,6 | 3R-7R | Right= 1,0 | 1,0 | 3R-7R | Right= 0,0 | | 3R-7R | Right= 0,031 | 4,6 | 3R-7R | Right= 0,000 | | 3R-7R | Right= 0,000 | | 3R-7R | Right= 0,000 | |
| 18L-18R | Center = 80,4 | | 18L-18R | Center= 65,8 | | 18L-18R | Center= 52,8 | | 18L-18R | Center = 40,0 | | 18L-18R | Center= 1,0 | | 18L-18R | Center= 0,0 | | 18L-18R | Center= 0,193 | | 18L-18R | Center = 0,000 | | 18L-18R | Center= 0,000 | | 18L-18R | Center= 0,000 | |

Crosswise Ratios (by ml)

| Zone 1 | | | Zone 2 | | | Zone 3 | | | Zone 4 | | | Zone 5 | | | Zone 6 | | | Zone 7 | | | Zone 8 | | | | | | | | |
|---------|----------------|-------|---------|---------------|-------|---------|----------------|-------|---------|----------------|-------|---------|---------------|-------|---------|---------------|-------|---------|---------------|-------|---------|----------------|-------|---------|---------------|-------|---------|---------------|-------|
| | Average | Ratio | | Average | Ratio | | Average | Ratio | | Average | Ratio | | Average | Ratio | | Average | Ratio | | Average | Ratio | | Average | Ratio | | Average | Ratio | | Average | Ratio |
| 3L-7L | Left = 0,181 | 2,3 | 3L-7L | Left = 0,063 | 3,0 | 3L-7L | Left = 0,031 | 4,6 | 3L-7L | Left = 0,011 | 9,0 | 3L-7L | Left = 0,181 | 2,3 | 3L-7L | Left = 0,000 | | 3L-7L | Left = 0,031 | 4,6 | 3L-7L | Left = 0,000 | | 3L-7L | Left = 0,000 | | 3L-7L | Left = 0,000 | |
| 3R-7R | Right= 0,181 | 2,3 | 3R-7R | Right= 0,063 | 3,0 | 3R-7R | Right= 0,031 | 4,6 | 3R-7R | Right= 0,011 | 9,0 | 3R-7R | Right= 0,181 | 2,3 | 3R-7R | Right= 0,000 | | 3R-7R | Right= 0,031 | 4,6 | 3R-7R | Right= 0,000 | | 3R-7R | Right= 0,000 | | 3R-7R | Right= 0,000 | |
| 18L-18R | Center = 0,421 | | 18L-18R | Center= 0,193 | | 18L-18R | Center = 0,144 | | 18L-18R | Center = 0,101 | | 18L-18R | Center= 0,421 | | 18L-18R | Center= 0,000 | | 18L-18R | Center= 0,144 | | 18L-18R | Center = 0,000 | | 18L-18R | Center= 0,000 | | 18L-18R | Center= 0,000 | |

The above crosswise ratios are calculated by the average units of oil for boards 18L - 18R and divided by the average units of oil for board 3 - 7 left and right.



| 3L-7L:18L-18R | 8L-12L:18L-18R | 13L-17L:18L-18R | 18L-18R:17R-13R | 18L-18R:12R-8R | 18L-18R:7R-3R |
|-----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|
| Outside Track: Middle | Middle Track: Middle | Inside Track: Middle | Middle: Inside Track | Middle: Middle Track | Middle: Outside Track |
| 3,00 | 1,55 | 0,96 | 0,96 | 1,55 | 3,00 |



| Lengthwise Ratio By Area | | | |
|--------------------------|-------|---------|-------|
| | 3L-7L | 18L-18R | 3R-7R |
| | Left | Center | Right |
| Zone 2 | 1,6 | 1,2 | 1,6 |
| Zone 3 | 3,0 | 1,5 | 3,0 |
| Zone 4 | 7,5 | 2,0 | 7,5 |
| Zone 5 | 34,6 | 80,4 | 34,6 |
| Zone 6 | | | |
| Zone 7 | | | |
| Zone 8 | | | |

NORWAY 21

Lengthwise Ratio By Board (units & ml)

| Zone | 7 Pin Side | | | | | | | | | | Board Number | | | | | | | | | | 10 Pin Side | | | | | | | | | | | | | | | | | |
|----------|------------|------|------|------|------|------|------|------|------|------|--------------|------|------|------|------|------|------|------|------|------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 | L11 | L12 | L13 | L14 | L15 | L16 | L17 | L18 | L19 | C20 | R19 | R18 | R17 | R16 | R15 | R14 | R13 | R12 | R11 | R10 | R9 | R8 | R7 | R6 | R5 | R4 | R3 | R2 |
| 2 | | 1,7 | 1,7 | 1,6 | 1,6 | 1,6 | 1,6 | 1,6 | 1,5 | 1,5 | 1,5 | 1,3 | 1,3 | 1,3 | 1,3 | 1,3 | 1,2 | 1,2 | 1,2 | 1,2 | 1,2 | 1,3 | 1,3 | 1,3 | 1,3 | 1,3 | 1,5 | 1,5 | 1,5 | 1,6 | 1,6 | 1,6 | 1,6 | 1,6 | 1,7 | 1,7 | | |
| 3 | | 3,6 | 3,6 | 3,4 | 3,4 | 2,7 | 2,7 | 2,7 | 2,0 | 2,0 | 2,0 | 1,8 | 1,8 | 1,6 | 1,6 | 1,6 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,6 | 1,6 | 1,6 | 1,6 | 1,8 | 1,8 | 2,0 | 2,0 | 2,0 | 2,7 | 2,7 | 2,7 | 3,4 | 3,4 | 3,6 | 3,6 | |
| 4 | | 25,0 | 25,0 | 11,3 | 11,3 | 5,0 | 5,0 | 5,0 | 2,9 | 2,9 | 2,9 | 2,2 | 2,2 | 2,2 | 2,2 | 2,2 | 1,8 | 2,1 | 2,2 | 2,1 | 1,8 | 2,2 | 2,2 | 2,2 | 2,2 | 2,2 | 2,9 | 2,9 | 2,9 | 5,0 | 5,0 | 5,0 | 11,3 | 11,3 | 25,0 | 25,0 | | |
| 5 | | 25,0 | 25,0 | 34,0 | 34,0 | 40,0 | 40,0 | 40,0 | 57,0 | 57,0 | 57,0 | 80,0 | 80,0 | 88,0 | 88,0 | 88,0 | 72,0 | 85,0 | 88,0 | 85,0 | 72,0 | 88,0 | 88,0 | 88,0 | 88,0 | 80,0 | 80,0 | 57,0 | 57,0 | 57,0 | 40,0 | 40,0 | 40,0 | 34,0 | 34,0 | 25,0 | 25,0 | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

The lengthwise ratios are calculated from the volumes in the first zone.

NORWAY 21



55
50
45
40
35
30
25
20
15
10
5

