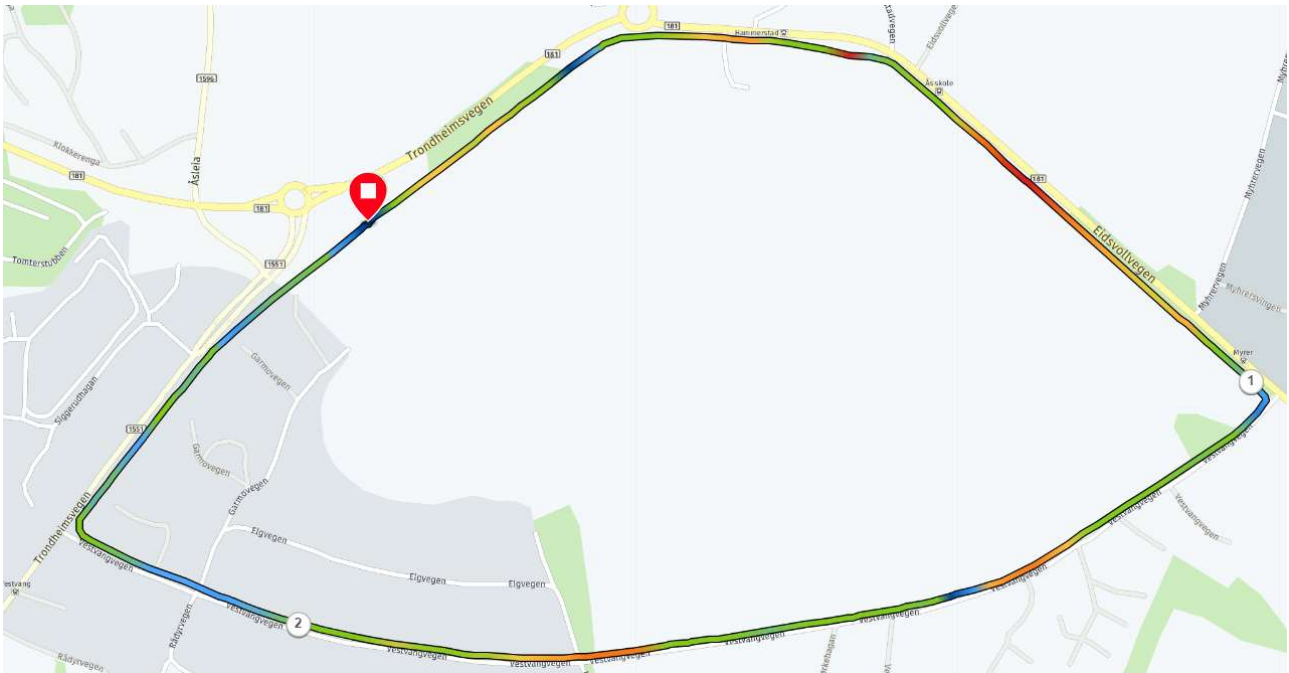


COURSE MEASUREMENT

Perseløpet Eidsvoll 2022



SUMMARY SHEET

EVENT: *Perseløpet*

LOCATION: *Eidsvoll, Norway*

DATE: *Every month in 2022*

Promoting Organisation: Feiring IL

Name & Address of race director: Bjørn Saksberg

Email: Bjørn@saksberg.com

Distance: *The course is not less than 2,633.00 m*
Measured by *Peer Jensen, Denmark*

Date: *26 July 2022, 16:15-17:05*

Measurement method: *Jones counter mounted on bicycle wheel*

Elevation, if not same, of: START 0 m FINISH 0 m

Distance, in a straight line, between start & finish: *0 m*

Distance, in a straight line, between start & finish of 3 km course: *367 m*

Distance, in a straight line, between start & finish of 5 km course: *266 m*

Distance, in a straight line, between start & finish of 10 km course: *532 m*

Distance, in a straight line, between start & finish of ½ marathon course: *33 m*

Distance, in a straight line, between start & finish of ½ marathon course: *67 m*

Description of the Course

Terrain: *nearly flat*

Race surface: *tarmac roads*

Course configuration: *point to point*

Start point: *Trondheimsvegen. Clearly marked with permanent spray*

Finish lines: *Trondheimsvegen. Clearly marked with permanent spray*

Measurement Details

Section of road available: *The runners use bicycle paths and small roads.*

Line to be taken at turns: *Shortest possible route.*

SIGNED: ... *Peer Jensen* DATE: *2022-08-01*

STEEL TAPING DATA

EVENT: *Perseløpet*
LOCATION: *Eidsvoll, Norway*
DATE: *Every month in 2022*

For measuring a calibration course

Name of calibration course: Trondheimsvegen
City/town and State: Eidsvoll, Norway
Date: 27 July 2022
Start time: 09:30
Finish time: 09:45
Pavement temperature: Start 15 °C Finish 15 °C Average 15 °C

Measurements and calculations:

First measurement. 50.00 m x 7 = 350 m
Second measurement. 50.00 m x 7 = 350 m
Average raw (uncorrected) measurement of course: 350 m
Temperature correction.
Correction factor = $1 - (5 \times 0.0000115) = 0.9999425$

Final (adjusted) length of calibration course $350 \times 0.9999425 = 349.98$ m

Calibrations

Pre-measurement

Date/Time 27 July 2022 09:45
Temp. 15 °C

Start	End	Reading
278500	282653	4153
282700	286851	4151
286900	291050	4150
291100	295252	4152

Average 4151.50

Working Constant 11862.11/km
+ 1 % 11.86/km
Pre-measurement constant 11873.97/km

Post-measurement

Date/Time 26 July 2022 10:45
Temp 15 °C

Start	End	Reading
364600	368752	4152
368800	372953	4153
373000	377152	4152
377200	281353	4153

Average 4152.50

Working Constant 11864.96/km
 11.86/km
Post-measurement constant 11876.82/km

Measurement working constant: **11874/km**
Constant for the Day (average): **11875.4/km**

CALIBRATION COURSE MAP

EVENT: *Perseløpet*
LOCATION: *Eidsvoll, Norway*
DATE: *Every month in 2022*



Calibration course 350 metres (part of race course)
Start point 3 km is directly on calibration course.

MEASUREMENT PROCEDURE

EVENT: *Perseløpet*
LOCATION: *Eidsvoll, Norway*
DATE: *Every month in 2022*

Measurement working constant: **11874** (11862.1 without 1 ‰)
Measurement constant for the day **11875.40** (11863.5 without 1 ‰)

Measurement of the course:

16:15

I checked the local measurer's start points and finish points.

Those points were clearly marked with permanent spray on the road and are used in every race.

Counter	Counts	Distance	Fix point
298700	0	0.00 m	3 km start Trondheimsvegen
298808	108	9.09 m	10 km finish Trondheimsvegen
301966	3158	265.93 m	5 km finish Trondheimsvegen
303058	1092	91.96 m	3 km finish Trondheimsvegen
305123	2065	173.89 m	Start all distances except from 3 km Trondheimsvegen
305479	356	29.98 m	½ marathon finish Trondheimsvegen
305838	359	30.23 m	Marathon finish Trondheimsvegen
329978	24140	2,032.77 m	3 km start Trondheimsvegen

Length of one lap: $329978 - 298700 = 31278$ counts = **2,633.85 m** (3,636.50 m)

I measured one lap non-stop: 330000-361267

Length of one lap: $361267 - 330000 = 31267$ counts = **2,632.92 m** (3,635.50 m)

One lap is defined to be: **2.633 m**

Length of 3 km course:

$(303058 - 298700) + 31267$ counts = 35625 counts = **2,999.90 m** (3,002.90 m)

Length of 5 km course:

$(2 * 31267) - (305123 - 301966)$ counts = 59377 counts = **5,000 m** (5,005.00 m)

Length of 10 km course:

$(4 * 31267) - (305123 - 298808)$ counts = 118753 counts = **9,999.92 m** (10,009.95 m)

Length of ½ marathon course:

$(8 * 31267) + 356$ counts = 250492 counts = **21,093.35 m** (21,114.50 m)

Length of Marathon course:

$(16 * 31267) + (356 + 359)$ counts = 500987 counts = **42.187 m** (42,229 m)

Conclusion: The local measurer has done a good job and the distances are not too short. I recommend the courses to be certified as AIMS courses.

MAP of the course

EVENT: *Perseløpet*
LOCATION: *Eidsvoll, Norway*
DATE: *Every month in 2022*

