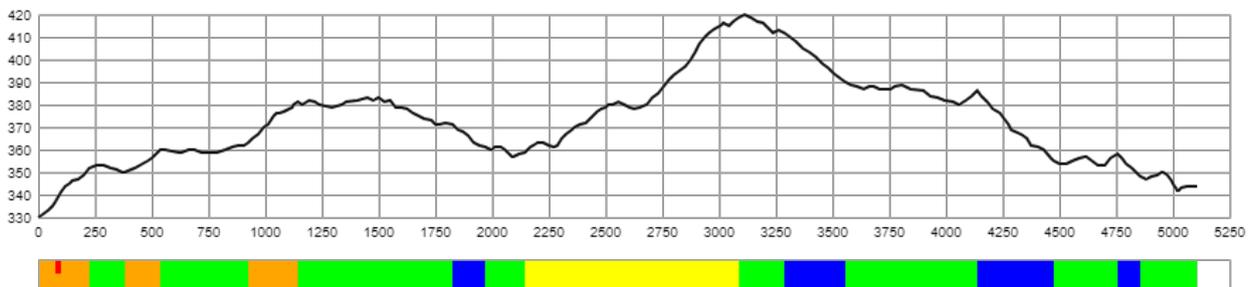




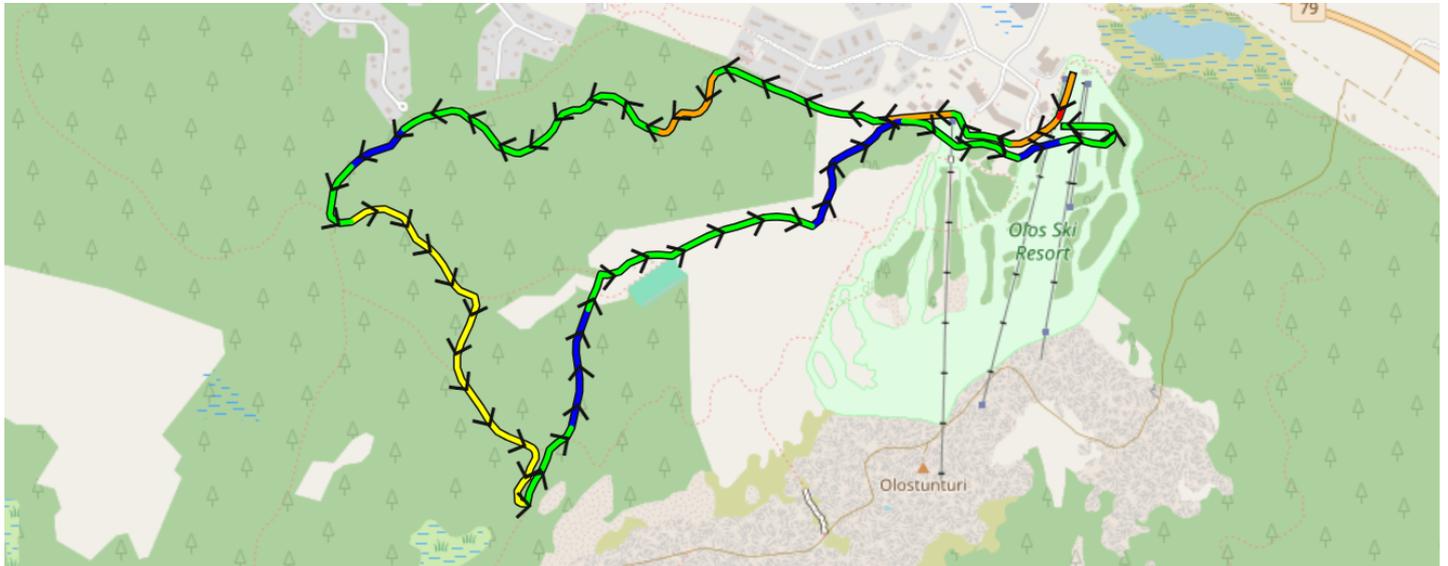
CERTIFICATE
OF FIS HOMOLOGATED CROSS-COUNTRY COURSE
FIS CROSS-COUNTRY COMMITTEE

(1) Registration number: 24/133.03/5.1
(2) Name of the competition site: Olos
(3) Name of city/region: Muonio
(4) Organizer: Muonion Kiri
(5) National ski association: Finnish Ski Association
(6) Contact person in the organizing committee: Kari Vuopio
(7) Homologation inspector: Juha Torvikoski
(8) Name of course: Olos 5.0 km
(9) Competition level for course: COC

Course length:	5,106m	Height difference (HD):	90m	Lowest point:	330m
Course category:	C	Maximum climb (MC):	66m	Highest point:	420m
		Total climb (TC):	158m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

Rosa, Anna
Rules and Control SC Chair

FIS Stamp



FIS Homologation
Responsible

Braam, Jonas

Date of Issue

03.09.2024

Valid until

30.06.2029

(10) Overview of the uphill:

	No.	PTC	% of TC
- major climbs	1	66	41.8
- shorter climbs	3	50	31.6
- steep climbs	1	0	0.0
- descents	4	0	0.0
- undulated terrain	8	42	26.6

(11) Stadium area:

		Indoor working room:	
Fixed stadium area	no	Timekeeping	yes
Fixed building	no	Announcer	yes
Temporary stadium	yes	Jury	yes
Temporary building	yes	Race office	yes
Good infrastructure (access, parking, media, etc.)	yes		
Skitesting area along course/near stadium	yes		
Warm up track near the stadium	yes		

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats	yes	yes		yes	yes
Course suitable for following competition formats with					
a) Classical technique	yes			yes	yes
b) Free technique	yes			yes	
Course suitable for relay and skiathlon competition					
a) On same course					
b) Combined on different courses (C+D or D+D)					

(13) Possibility of snow making:

Yes

(14) Map Material:

The course maps are good.

(15) Source of accurate elevation data:

GPS measurement

(16) Safety considerations:

The course is safe. Downhills are fast.

(17) General remarks:

This course is almost the same as the course 19/33.02/5.0

(18) Date of first inspection: 2024/6/18

(19) Date of final inspection: 2024/6/20

(20) Summary of terrain characteristics

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb ■	1	2,146	60	66	-4.9 - 17.3	6.4	
	total			66			41.8% part of TC
B-climb ■	1	0	22	22	4.3 - 18.4	9.7	C at 76m, PTC: 4m, 18.2%
	2	380	10	10	4.3 - 11.2	6.4	
	3	927	18	18	4.3 - 15.1	8.3	
	total			50			31.6% part of TC
C-climb ■	total			0			0.0% part of TC
undulated terrain ■	total			42			26.6% part of TC
	total climb			158			