Lemon zest apa

- Gravity 14.3 BLG
- ABV **5.9** %
- IBU **20**
- SRM **4.3**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 10 %
- Size with trub loss 27.5 liter(s)
- Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 34.5 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 24.5 liter(s)
- Total mash volume 31.5 liter(s)

Steps

- Temp 62 C, Time 55 min
 Temp 78 C, Time 5 min

Mash step by step

- Heat up 24.5 liter(s) of strike water to 68C
- Add grains
- Keep mash 55 min at 62C
- Keep mash 5 min at 78C
 Sparge using 17 liter(s) of 76C water or to achieve 34.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	7 kg (100%)	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	20 g	60 min	12.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Us-05	Ale	Dry	11.5 g	

Extras

Туре	Name	Amount	Use for	Time
Flavor	Sok z cytryn 3 sztuki	1 g	Boil	10 min
Flavor	Zest z 3 cytryn	3 g	Boil	10 min
Flavor	Laktoza	600 g	Boil	10 min