Nic

- Gravity 8.3 BLG
- ABV 3.2 %
- IBU **39**
- SRM **3**
- Style Standard/Ordinary Bitter

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 3 %
- Size with trub loss 25.8 liter(s)
- · Boil time 60 min
- Evaporation rate 6 %/h
- Boil size 28.6 liter(s)

Mash information

- Mash efficiency 78 %
- Liquor-to-grist ratio 2.5 liter(s) / kg
- Mash size 9.3 liter(s)
- Total mash volume 12.9 liter(s)

Steps

- Temp 64 C, Time 15 min
 Temp 70 C, Time 45 min

Mash step by step

- Heat up 9.3 liter(s) of strike water to 72.8C
- Add grains
- Keep mash 15 min at 64C
- Keep mash 45 min at 70C
- Sparge using 23 liter(s) of 76C water or to achieve 28.6 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.7 kg <i>(100%)</i>	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	25 g	60 min	13.5 %
Aroma (end of boil)	Lublin (Lubelski)	20 g	5 min	4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Uwodnione