BS024 Landlord Tribute (Yorkshire Bitter)

Strong Bitter (11 C)

Type: All Grain Batch Size: 40.00 I Boil Size: 48.68 I Boil Time: 60 min End of Boil Vol: 43.68 I Final Bottling Vol: 39.00 I Fermentation: Ale, Two Stage Date: 16 Jan 2016 Brewer: Charles Tucker Asst Brewer: Equipment: My Braumeister 50L Efficiency: 74.00 % Est Mash Efficiency: 77.7 % Taste Rating: 30.0



Taste Notes: Taste was like a strong bitter. No over powering hoppiness.

Tasted 01/02/16. Bit raw in flavour. SG was 1.006.

Bottled and kegged 06/02/16. taste was very good. A nice malt and hop balance. Hops not over-powering. Very much a "Yorkshire Bitter". Brilliant clarity.

This has turned out to be a nice beer, but nearly malty enough. Maybe Golden Promise would have been better, or alternatively perhaps some crystal/amber/brown/victory/biscuit malt. Needs a more caramel or toffee taste.

Prepare for Brewing

O Clean and Prepare Brewing Equipment

O Total Water Needed: 54.16 I

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Water Prep

Amt	Name	Туре	#	%/IBU
55.00 I	RO Water	Water	1	-
22.00 ml	Phosphoric Acid 14% (Mash 60.0 mins)	Water Agent	2	-
8.25 g	Calcium Chloride (Mash 60.0 mins)	Water Agent	3	-
6.05 g	Epsom Salt (MgSO4) (Mash 60.0 mins)	Water Agent	4	-
2.75 g	Gypsum (Calcium Sulfate) (Mash 60.0 mins)	Water Agent	5	-
1.40 g	Precipitated Chalk (Youngs) (Boil 70.0 mins)	Water Agent	10	-

Mash or Steep Grains

Mash Ingredients

Amt	Name	Туре	#	%/IBU
7.40 kg	Pale Malt, Maris Otter (Warminster Maltings) (4.5 EBC)	Grain	6	88.2 %
0.60 kg	Pale Malt Crushed, Maris Otter (5.0 EBC)	Grain	7	7.2 %
0.14 kg	Black Malt (Thomas Fawcett) (1300.2 EBC)	Grain	8	1.7 %
55.00 I	RO Water (Kingfisher Aquarium) (Mash 0.0 mins)	Other	9	-

Mash Steps

Name	Description	Step Temperature	Step Time
Saccharification	Add 54.15 I of water at 71.9 C	67.0 C	60 min
Mash Out	Add 0.01 I of water and heat to 76.0 C over 10 min	76.0 C	15 min

O If steeping, remove grains, and prepare to boil wort

O Add water to achieve boil volume of 48.68 I

O Estimated pre-boil gravity is 1.041 SG

Boil Ingredients

Amt	Name	Туре	#	%/IBU
1.40 g	Precipitated Chalk (Youngs) (Boil 70.0 mins)	Water Agent	10	-
80.00 g	Liberty (The Malt Miller) [6.40 %] - Boil 60.0 min	Нор	11	30.4 IBUs
0.50 Items	Protofloc Tablet (Boil 15.0 mins)	Fining	12	-
30.00 g	Ahtanum (Malt Miller) [5.20 %] - Boil 10.0 min	Нор	13	3.7 IBUs
20.00 g	Liberty (The Malt Miller) [6.40 %] - Boil 10.0 min	Нор	14	2.8 IBUs

Steeped Hops

Amt	Name	Туре	#	%/IBU
20.00 g	Hallertauer Mittelfrueh [3.60 %] - Steep/Whirlpool 40.0 min	Нор	15	1.9 IBUs
20.00 g	Liberty (The Malt Miller) [6.40 %] - Steep/Whirlpool 40.0 min	Нор	16	3.3 IBUs
15.00 g	Bramling Cross [5.53 %] - Steep/Whirlpool 40.0 min	Нор	17	2.2 IBUs

O Estimated Post Boil Vol: 43.68 I and Est Post Boil Gravity: 1.050 SG

Cool and Transfer Wort

- Cool wort to fermentation temperature
- \bigcirc Transfer wort to fermenter
- \bigcirc Add water if needed to achieve final volume of 40.00 I

Pitch Yeast and Measure Gravity and Volume

Fermentation Ingredients

Amt				
AIII	Name	Туре	#	%/IBU
2.0 pkg	West Yorkshire Ale (Wyeast Labs #1469)	Yeast	18	-
0.25 kg	Cane Sugar Unrefined (Billington's) (3.9 EBC)	Sugar	19	3.0 %
O Measure Actual Ba	iginal Gravity (Target: 1.050 SG) tch Volume (Target: 40.00 I) d to achieve final volume of 40.00 I			
	Fermentation			
	ary Fermentation (4.00 days at 20.0 C ending at 20.0 C) ondary Fermentation (10.00 days at 20.0 C ending at 20.0 C) Secondary Ingredients			
Amt	Name	Туре	#	%/IBU
1.06 g	Gelatin (Brupaks) (Secondary 5.0 hours)	Fining	20	-
	Dry Hop and Bottle/Keg vity: (Estimate: 1.014 SG) ed: 30 Jan 2016 - Carbonation: Bottle with 100.93 g Table Sug	gar unrefined (B	illingtor	ı's)
 Age beer for 30.00 29 Feb 2016 - Drin 	days at 15.0 C			

Add the calcium carbonate to the kettle as it doesn't dissolve in water at neutral pH.

Black malt added at vorlauf (turn off BM and lift top filters and add to mash before starting mash out).

Gordon Strong adds 1/2 tsp of chalk to boil.

52L after removing malt tube.

Post boil volume was 47L.

RO pH no acid was 6.20. TDS was 11.9.

Racked into conditioning vessel 03/02/16. Brix 5.5 (1.006). 5 tspns gelatin dissolved in 200ml warm water and gently stirred in. pH4.69.

Bottled (21.5L) and kegged (19.0L) 06/02/16.