Docktune Setup Sheet PROJECT: TP52 Beau Geste 2019 RIGGING: Future Fibres AeroSix JOB NO: 7478 REVISION: A DATE: 28/05/2018 DESIGNER: Marco Sevila This dock tune sheet is only to be used with Futrue Fibres AeroSix rigging. Any other rigging supplier must supply their own calculated dock tune numbers to be used with their rigging.

All Halyards, Aft Stays and, if applicable, Inner & Outer Forestays **MUST BE SLACK**. Ideally Boom should be removed, but if this is not possible, use a topping lift. **VANG MUST BE DISCONNECTED**.

Mastbase Position:	Aft face of mast @ butt		rward of Aft face of mast @ Deck eck Collar to Bottom of Baseplate): Below Deck Rake:	1526 mm 1.2 °
*Docktune Rake:	2° Above Deck		BAS Swing (To deck intersection):	2877 mm
Docktune Jack Pressures	:			
Cylinder Model	RAC-20*			
Number Of Cylinders Total Cylinder Area		cm²	Shim Stack Height:	66 mm

	Tuning Sequence	Jack Load (Incl Rig	Required pressure		Action
	Tuning Sequence	Weight) (kg)	PSI	Bar	ACTION
**	All V's & Headstay	7,317	3,336	230	Tighten V1
	***Prebend @ Spreader 2 for 'All V's & Headstay' jack pressure:			116 mm	
		V1 Tension for 'All V's &	Headstay' jack pressure:	3190 kg	
	Heads	stay Tension for 'All V's &	Headstay' jack pressure:	745 kg	
	All V's, Headstay & D1	9,118	4,157	287	Tighten D1
	All V's, Headstay & D1-2	10,256	4,676	322	Tighten D2
	All V's, Headstay & D1-3	10,901	4,971	343	Tighten D3

Measurement Setup

For All Prebend and HS Tension measurements only Side Rigging & Headstay can be under tension - All Halyards, Aft Stays and, if applicable Inner & Outer Forestays MUST BE SLACK

Headstay Tension @ Full Tune:	1,020	kg
V1 Tension @ Full Tune:	4,090	kg

Mast Prebend (as setup above):

	Elevation Above Deck	Prebend for Full Tune ***
	(m)	(mm)
P BAND	22.869	20
HEADSTAY	20.090	45
S3	15.899	76
S2	10.949	86
S1	5.599	52
BAS	1.669	0
		Note: Prebend offset excludes any track or mainsail ramp offset

Notes:

- * Docktune Rake is the minimum rake (max upright) that the mast has been designed to. If less rake is desired then the rig needs to be retuned to the jack pressures stated within.
- ** Pause tuning process at first step ("All V's & Headstay" jack pressure) and check bend of mast at given location. If actual bend differs then this indicates that either the Docktune Rake or Mastbase Position is out.
- (Note, check V1 & HS tension at "All V's & Headstay" and "Full Load" Jack Pressure for load cell calibration purposes)
- *** All Prebend numbers are given from <u>Aft Face of Mast to Fwd Edge of Main Halyard</u> when Halyard is pulled down to BAS (Top of Gooseneck Bracket). Halyard sheave distance aft of back face of mast has been taken into account for measurements specified.
- (i) Fine tuning may be required for theoretical tune to match reality, however, the pressure deltas between steps must not exceed 10% without consent from Southern Spars. Warranty of this rig is at risk if this is not observed.
- (ii) If any vertical stays go slack under normal sailing conditions, please contact Southern Spars to address this issue.
- (iii) Take care when measuring Mastbase and Rake if boat is not at level trim. Corrections to references will need to be made.
- (iv) Contact Southern Spars for any further queries