

ROAD BIKE WHEEL TEST CERTIFICATE

General information

Manufacturer	<i>_giman</i>	Nepest
Model	<i>_gimod</i>	Maui
Year	<i>_giyr</i>	2024
Address	<i>_giadd</i>	Xiamen
Contact	<i>_gicon</i>	Polin
Email	<i>_giemail</i>	NA

Comment
<i>_gicom</i>
Nepest Requested a full Engineering Analysis with results to be openly shared on YouTube

Approvals		
Created By	<i>_gicreat</i>	SVH
Checked	<i>_gicheck</i>	PJW
Date	<i>_gidate</i>	12/12/2024

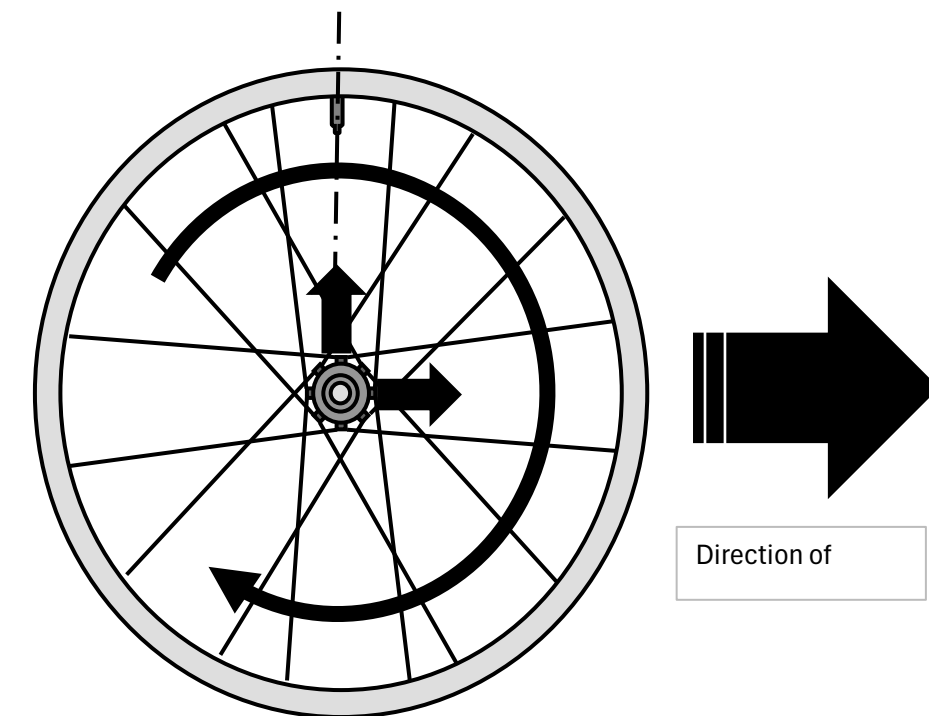
Notes

Notes
<i>_ginotes</i>
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Measurement Devices

Item	Description	Manufacturer	ID	Comment
Balancing Machine	LSB Balancing Machine	Schenk	CGN-HER-BM223	Spindle Drive Used
Dial Test Indicator	Generic	Mitutoyo	CGN-HER-DTI289	Swivel Bracket
Dial Test Indicator	Generic	Mitutoyo	CGN-HER-DTI257	Swivel Bracket
Digital Caliper	Generic	Mitutoyo	N/A	
Optical Sensor	Speed Pickup Primary	Fluke	HAM-LK-V001	
PT	Rake	Fischer	HAM-LK-PT010	
PT	Rake	Fischer	HAM-LK-PT011	
PT	Rake	Fischer	HAM-LK-PT012	
PT	Rake	Fischer	HAM-LK-PT013	
PT	Rake	Fischer	HAM-LK-PT014	
PT	Rake	Fischer	HAM-LK-PT015	
PT	Rake	Fischer	HAM-LK-PT016	
PT	Rake	Fischer	HAM-LK-PT017	
PT	Rake	Fischer	HAM-LK-PT018	
PT	Rake	Fischer	HAM-LK-PT019	
PT	Rake	Fischer	HAM-LK-PT020	
PT	Rake	Fischer	HAM-LK-PT021	
RH Sensor	Humidity Sensor Primary	Emerson	N/A	
RH Sensor	Humidity Sensor Secondary	Emerson	N/A	
Scales	Generic	Breuer	N/A	
TT	Temperature Sensor	Fischer	HAM-LK-TT03	
TT	Temperature Sensor	Fischer	HAM-LK-TT04	
Vibro Analyser	Vibration Analysis	SKF	N/A	
Ultrasonic Tester	Trummy	FAG	N/A	Spoke Tension Meter

Datum
Datum measured from the centre of the wheel. Indexed from the centre of the valve hole. Angular measurements are taken from the valve hole. Clockwise measurements are positive

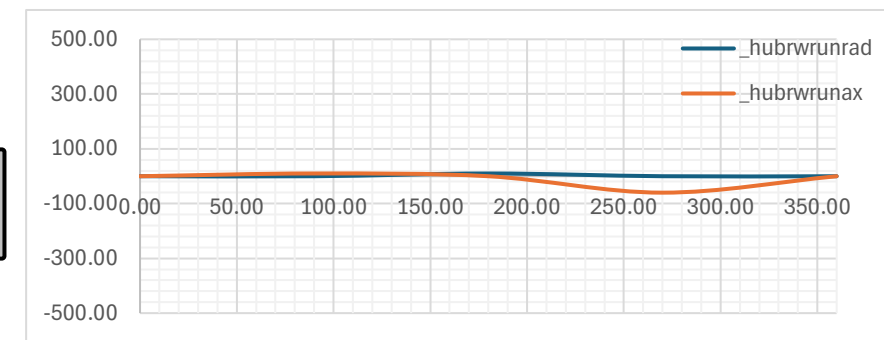
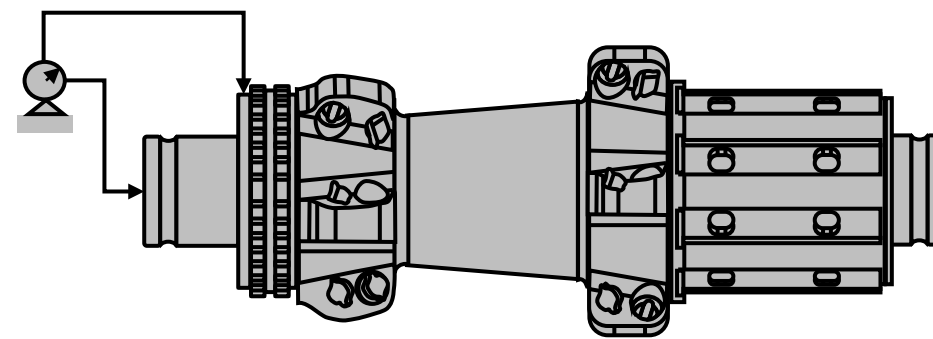
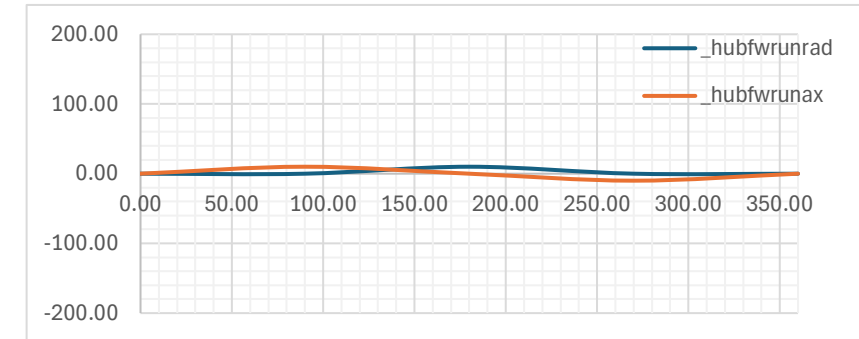
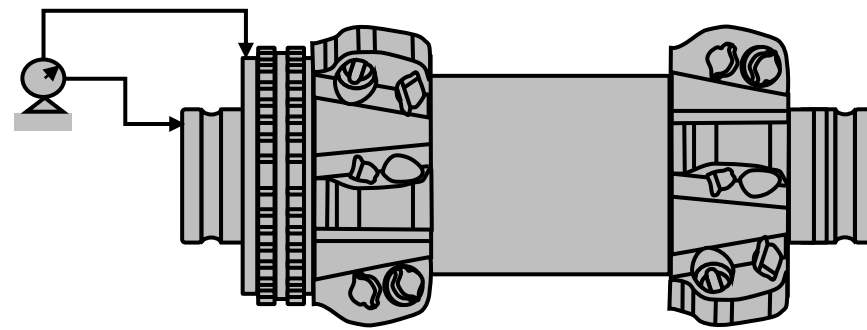


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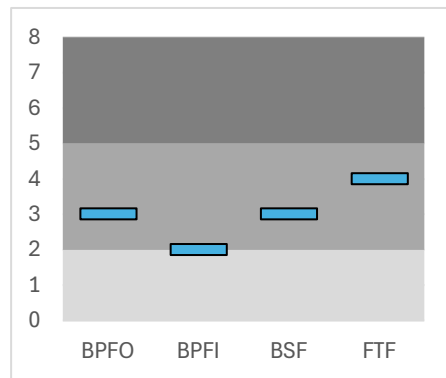
Wheel Hub

Manufacturer	_hubmake	Nepest	
Model	_hubmod	Unknown	
Year	_hubyr	2024	
Disc / QR	_hubdqr	Disc	
Freehub Type	_hubfreehub	Axial	

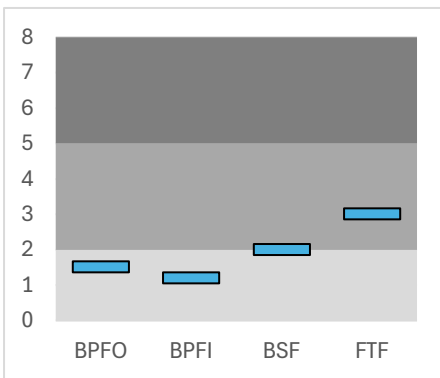
		Front		Rear		Freehub	
		Left	Right	Left	Right	Left	Right
BRG Manufacturer	_hubbrgman	OEM	OEM	OEM	OEM	OEM	OEM
JIS	_hubjis	15267	15267	15267	15267	15267	15267
Clearance	_hubbrgclr	CN	CN	CN	CN	CN	CN
d	_hubd	15	15	15	15	15	15
D	_hubdd	26	26	26	26	26	26
B	_hubb	7	7	7	7	7	7
Float Radial	_hubfltrad	0.05					
Float Axial	_hubfltax	0.05					



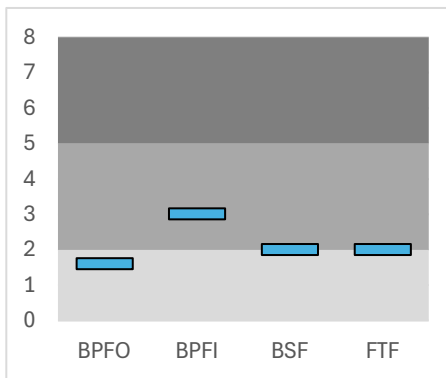
Front Left



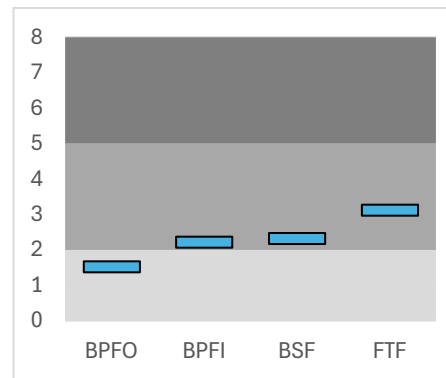
Front Right



Rear Left



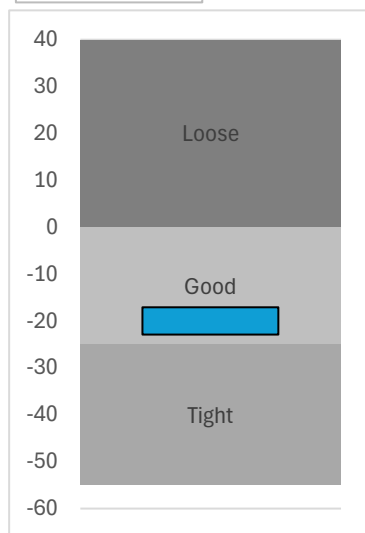
Rear Right



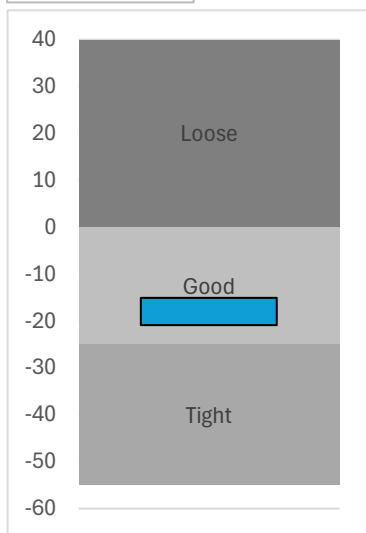
Front Left



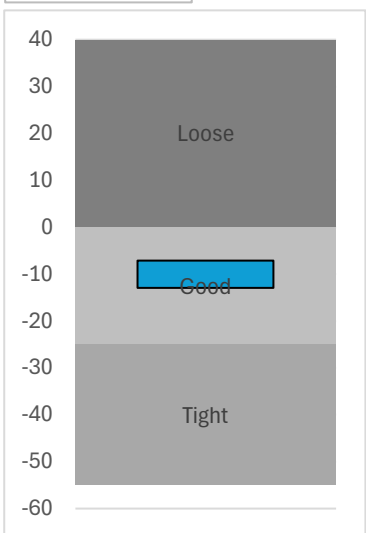
Front Right



Rear Left



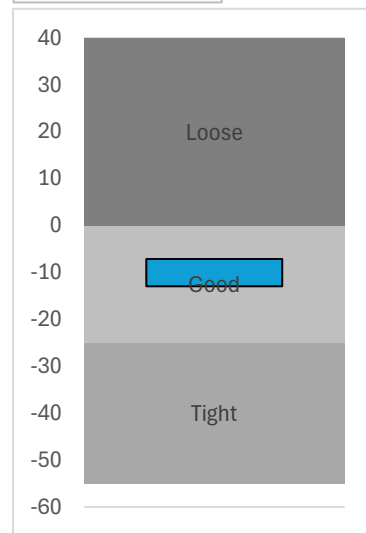
Rear Right



Rear Left FH



Rear Right FH



Comment

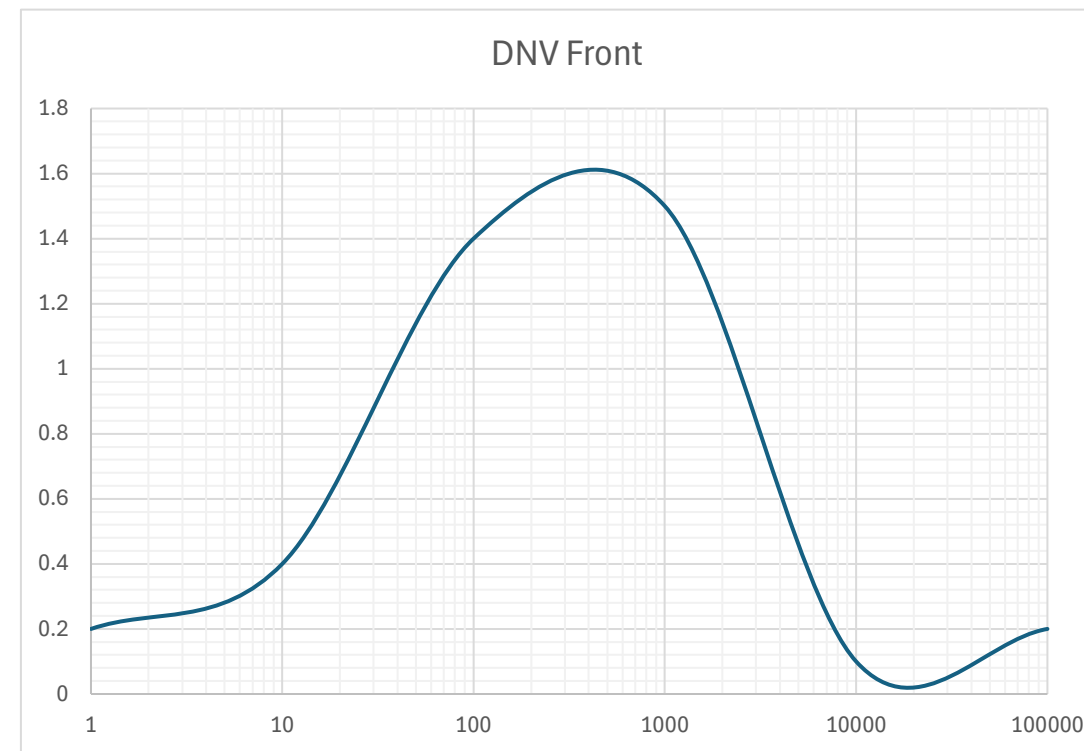
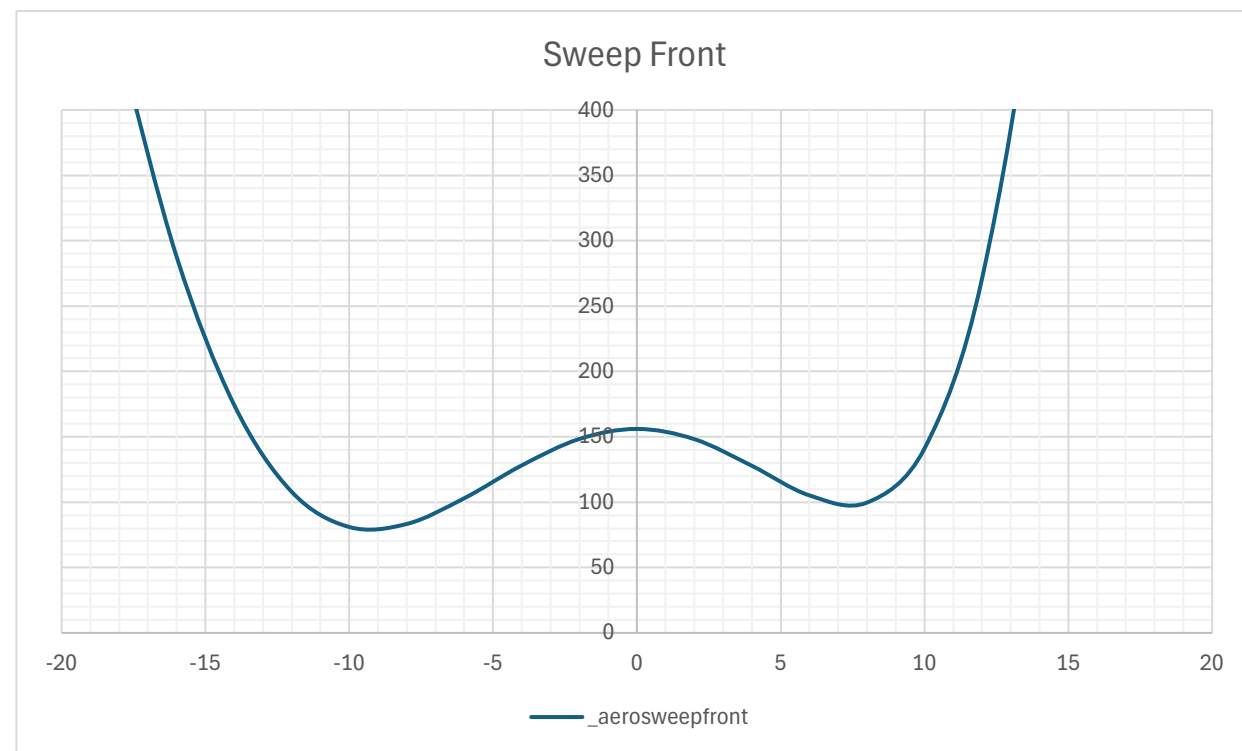
_hubcom

Aerodynamic Performance

Date	_aerodate	04/12/2024	
Location	_aeroLoc	HAM	
RH	_aeroRH	76	%
Temp	_aeroTemp	13	C
Press	_aeroPress	1003	mbarA
Open/Closed	_aeroOpenClose	OPEN	
Induced/Forced	_aeroindfor	Forced	
Flow Straightener	_aeroflowstraight	Yes	

Front		
_aerofront		
Manufacturer	Conti	
Model	GP5000	
Measured Width	28.6	mm
Make	Shimano	
Model	IceTech	
Diameter	160	mm

Rear		
_aerorear		
Manufacturer	Conti	
Model	GP5000	
Measured Width	28.6	mm
Make	Shimano	
Model	IceTech	
Diameter	140	mm



Comment
_aerocom

