



S-E-A VIMF

Vehicle Inertia Measurement Facility

VIMF Test #: 7409	Test Date: 11/26/2019	Date Printed: 6/2/2023	Front Track (mm): 1580.5
Year: 2023	Project: SEA Research		Rear Track (mm): 1606.6
Make: xxxxxx	VIN: 4S3BWAC67L3010685		Average Track (mm): 1593.5
Model: zzzzzz	Mileage: 6		Roof Height (mm): 1491.0
			Wheelbase (mm): 2754.0

Description: Driver, Full Fuel, 2.5L I4 , CVT, AWD, 4 Door, Sedan

Load: Driver

Front Tire Type: xxxxxxxx-yyyy-zzzz Front Tire Size: 225/55R17 92V Front Tire: 33 <i>psi</i> 2.28 <i>bar</i> Rear Tire Type: xxxxxxxx-yyyy-zzzz Rear Tire Size: 225/55R17 92V Rear Tire: 32 <i>psi</i> 2.21 <i>bar</i>	Weights (kg) <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Left Front</td> <td style="width: 10%;"></td> <td style="width: 40%;">Right Front</td> </tr> <tr> <td>508.0</td> <td></td> <td>468.5</td> </tr> <tr> <td>Left Rear</td> <td></td> <td>Right Rear</td> </tr> <tr> <td>361.2</td> <td></td> <td>334.8</td> </tr> </table>	Left Front		Right Front	508.0		468.5	Left Rear		Right Rear	361.2		334.8	Total Weight (kg) 1672.4 Lateral CG (mm) -31.4 Longitudinal CG (mm) 1146.0
Left Front		Right Front												
508.0		468.5												
Left Rear		Right Rear												
361.2		334.8												

Applied Weight (kg)	Platform Angle (deg)	Motion Relative to Platform (mm)	CG Height (mm)	
0.000	0.090	0.000	0.0	
18.790	3.269	-0.416	549.1	
28.175	4.825	-0.691	549.5	
18.790	-3.092	0.432	550.7	
28.175	-4.650	0.743	550.7	
			550.0	T/2H = 1.449
Period (sec)	Platform Amplitude (deg)	Relative Motion (mm)	Pitch Inertia (kg-m ²)	
4.969	4.019	0.531	2771	
4.968	3.973	0.521	2771	
4.968	3.918	0.510	2771	
			2771	
Period (sec)	Platform Amplitude (deg)	Relative Motion (mm)	Yaw Inertia (kg-m ²)	Roll/Yaw Product (kg-m ²)
2.672	2.934	0.182	3064	72
2.670	2.861	0.176	3059	73
2.671	2.944	0.182	3060	72
			3061	72
Period (sec)	Platform Amplitude (deg)	Relative Motion (mm)	Roll Inertia (kg-m ²)	
1.320	2.849	0.438	637	
1.321	2.909	0.450	638	
1.321	2.896	0.447	638	
			638	