

Unnamed Report

IIHS | Frontal Impact against Small Overlap Barrier with 25% Overlap at 64 km/h
v1 | v2 | v3

Report Status

	v1	v2	v3
Overall	OK	OK	OK
Driver	OK	OK	OK
Head and neck	OK	OK	OK
HIC 15	OK	OK	OK
Nij	OK	OK	OK
Neck axial tension	OK	OK	OK
Neck compression	OK	OK	OK
Neck tension duration corridor	OK	OK	OK
Neck compression duration corridor	OK	OK	OK
Neck shear duration corridor	OK	OK	OK
Chest	OK	OK	OK
Thoracic spine acceleration (3 ms)	OK	OK	OK
Sternum deflection	OK	OK	OK
Sternum deflection rate	OK	OK	OK
Viscous criterion	OK	OK	OK
Thigh and hip	OK	OK	OK
Left knee-thigh-hip injury risk	OK	OK	OK
Right knee-thigh-hip injury risk	OK	OK	OK
Leg and foot	OK	OK	OK

Manual Inputs

	Default	Source	v1	v2	v3
p_driver	'1'	test report	'1'	'1'	'1'
hard_contact_downgrades	0	video and head acceleration	0	0	0
automatic_poor	False	video and postcrash inspection	False	False	False
demerits	0	video and postcrash inspection	0	0	0
integrity_failure	False	postcrash inspection	False	False	False
intrusion_rating	4	intrusion measurements	4	4	4
qualitative_downgrades	0	postcrash inspection	0	0	0

Overall Rating

	v1	v2	v3
Overall	0.0	0.0	-26.0
Vehicle structure	0.0	0.0	0.0
Head and neck	0.0	0.0	-20.0
Chest	0.0	0.0	-2.0
Thigh and hip	0.0	0.0	0.0
Leg and foot	0.0	0.0	-4.0
Restraints and dummy kinematics	0.0	0.0	0.0

Driver Injury Ratings

	v1	v2	v3
Head and neck	0.0	0.0	-20.0
Chest	0.0	0.0	-2.0
Thigh and hip	0.0	0.0	0.0
Leg and foot	0.0	0.0	-4.0
Driver	0.0	0.0	-26.0

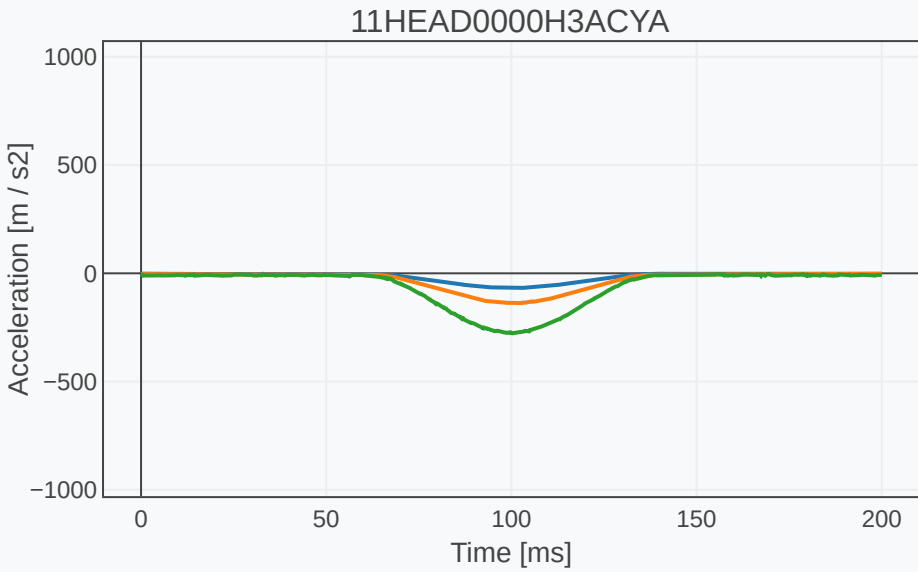
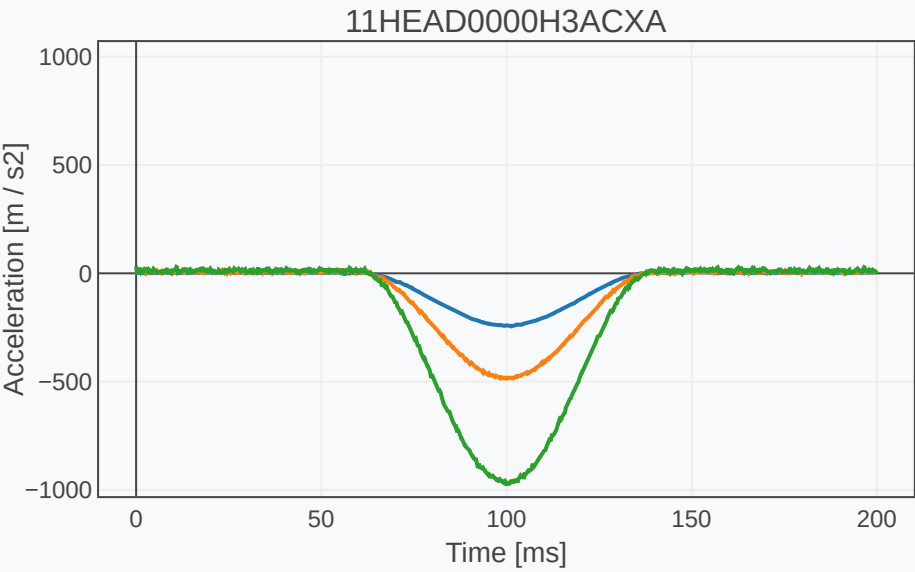
Driver Values



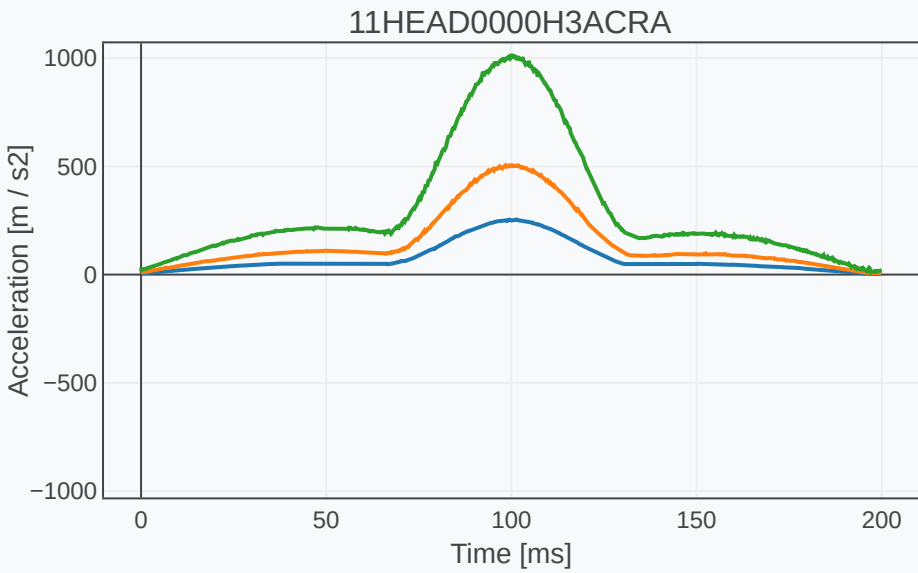
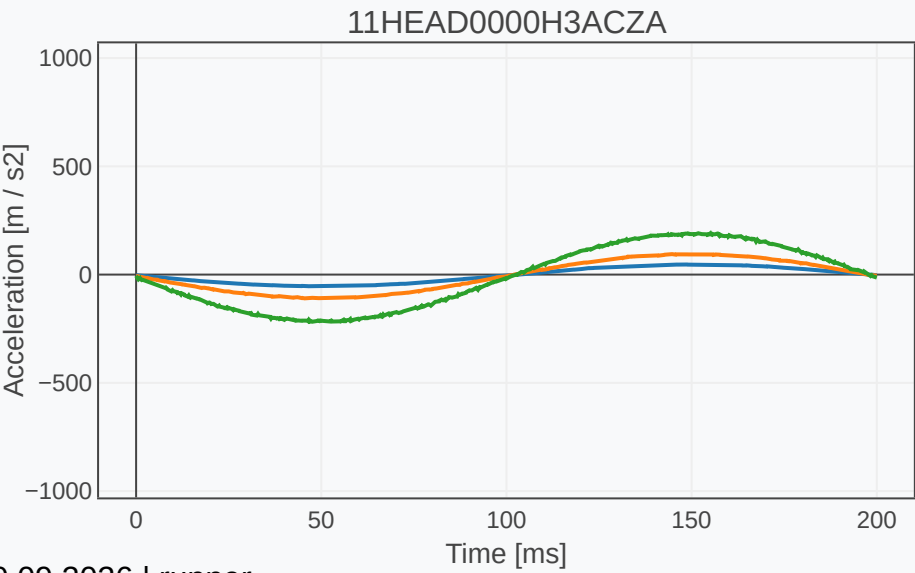
Driver Values

	v1	v2	v3
HIC 15 []	46.15	260.7	1471
Nij []	0.1544	0.3144	0.6258
Neck axial tension [kN]	0.5043	1.012	2.025
Neck compression [kN]	-0.4587	-0.9112	-1.826
Neck tension duration corridor [kN]	0.5041	1.012	2.021
Neck compression duration corridor [kN]	-0.4587	-0.9112	-1.826
Neck shear duration corridor [kN]	0.457	0.914	1.828
Thoracic spine acceleration (3 ms) [g0]	4.637	9.275	18.55
Sternum deflection [mm]	-14	-28	-56
Sternum deflection rate [m / s]	-0.23	-0.46	-0.92
Viscous criterion [m / s]	0.24	0.48	0.96
Left knee-thigh-hip injury risk [kN]	0.92	1.84	3.68
Right knee-thigh-hip injury risk [kN]	1.057	2.115	4.23
Tibia-femur displacement [mm]	5.5	11	22
Tibia index []	0.235	0.47	0.94
Tibia axial force [kN]	0.965	1.93	3.86
Foot acceleration [g0]	5.354	10.71	21.41

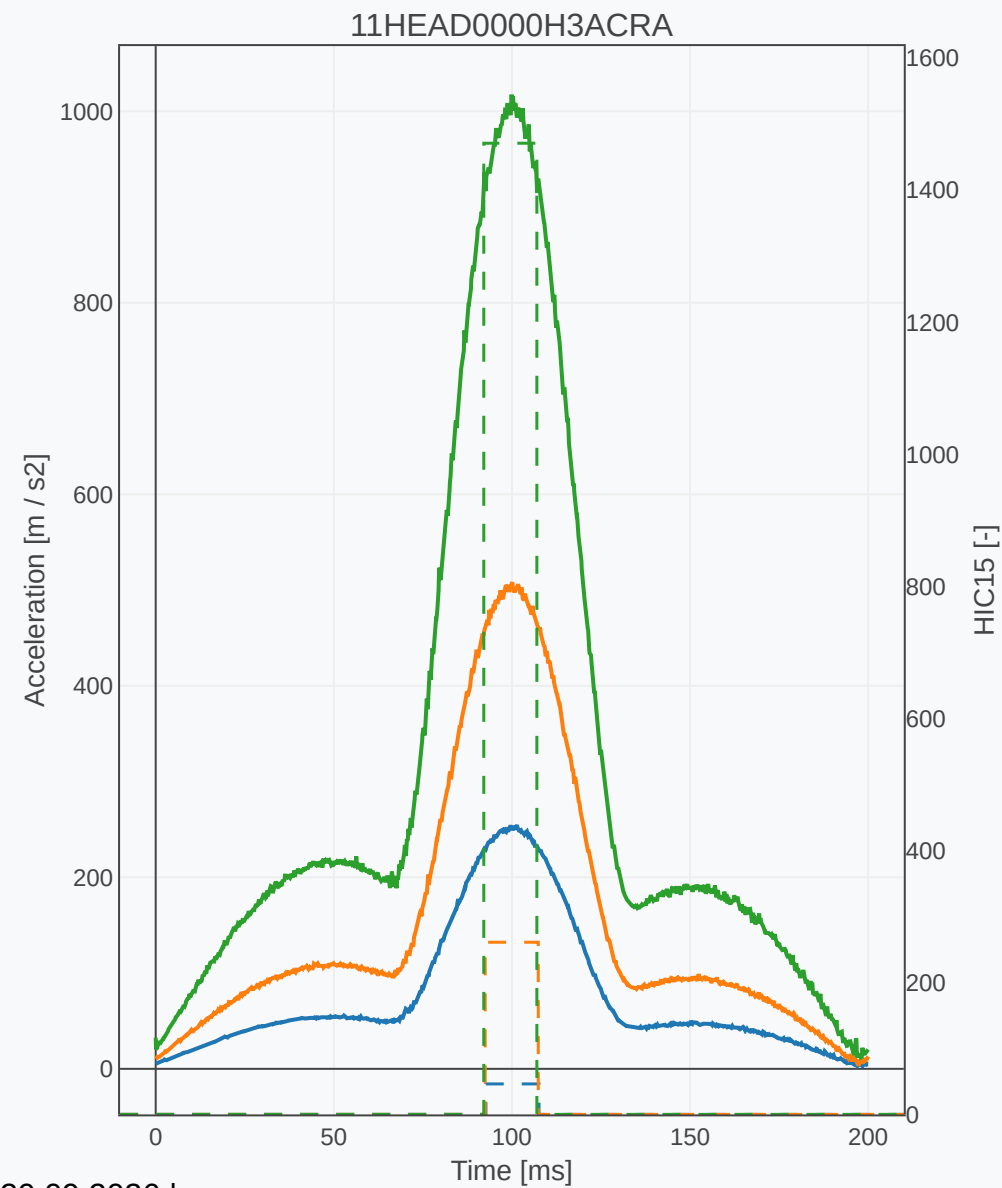
Driver Head Acceleration



- v1
- v2
- v3



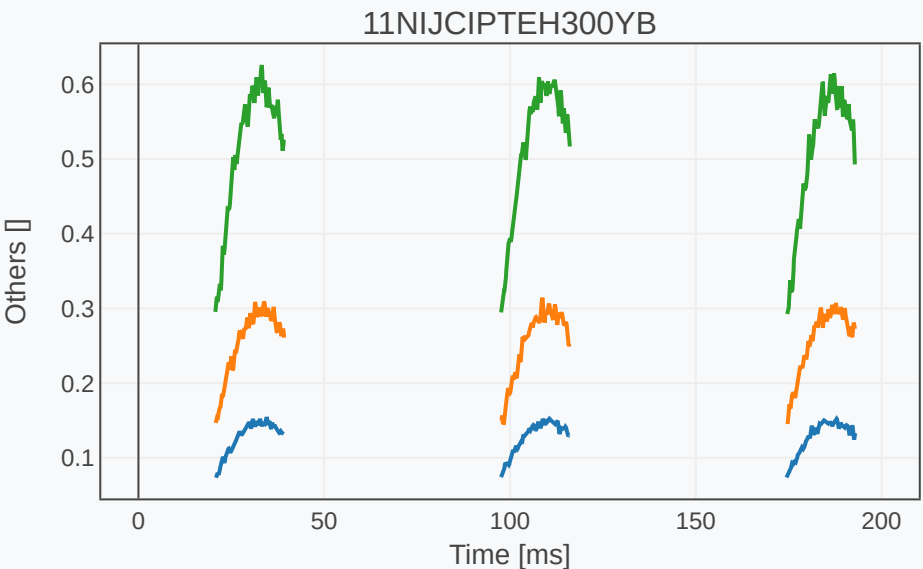
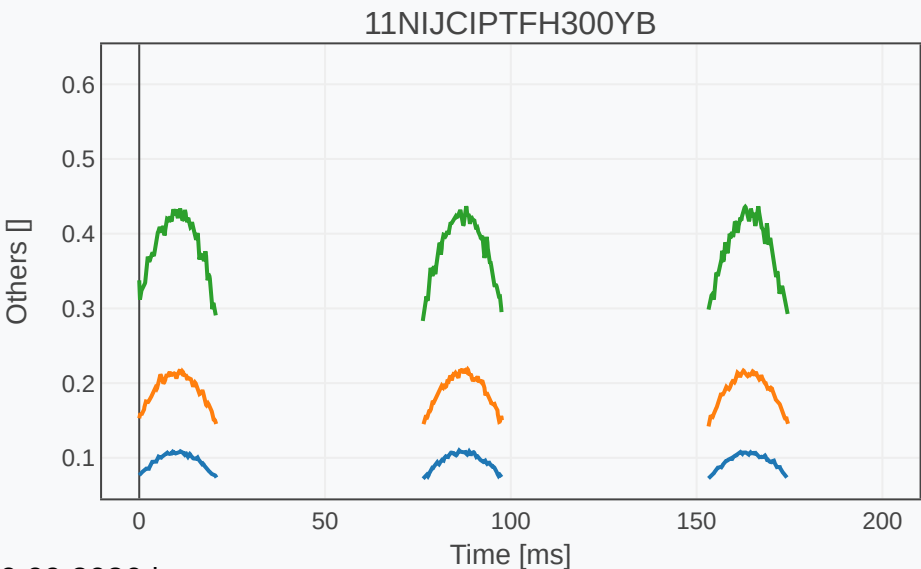
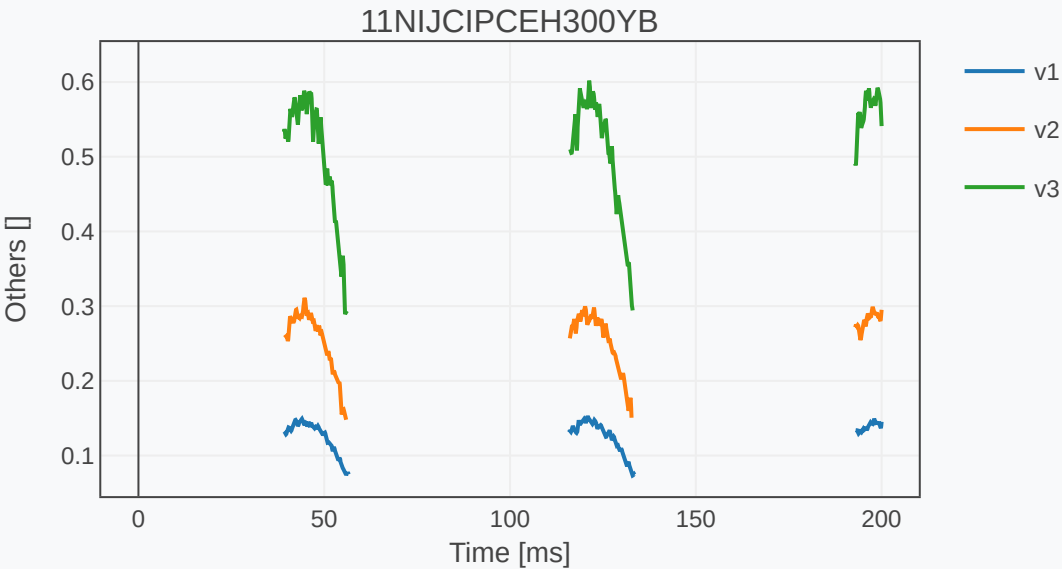
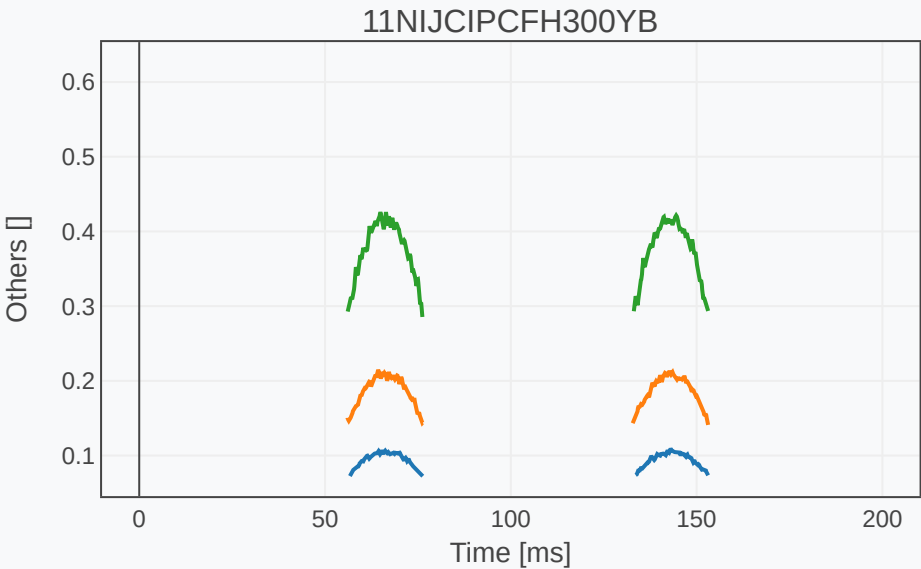
Driver HIC15



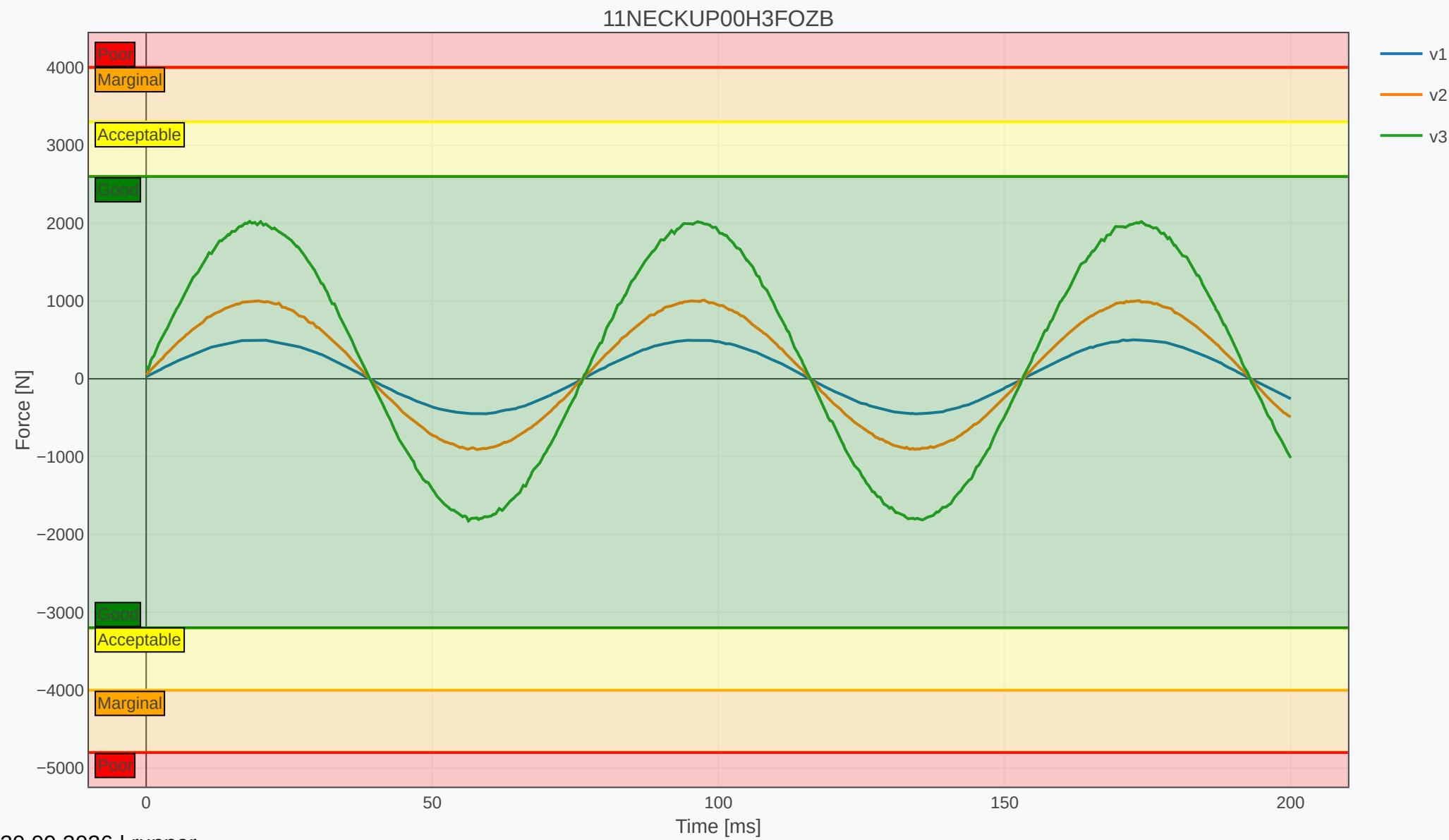
	HIC15	Start [ms]	End [ms]
v1	46.1	92.70	107.60
v2	260.7	92.50	107.40
v3	1470.9	92.10	107.00

- v1
- v2
- v3
- v1 HIC15
- v2 HIC15
- v3 HIC15

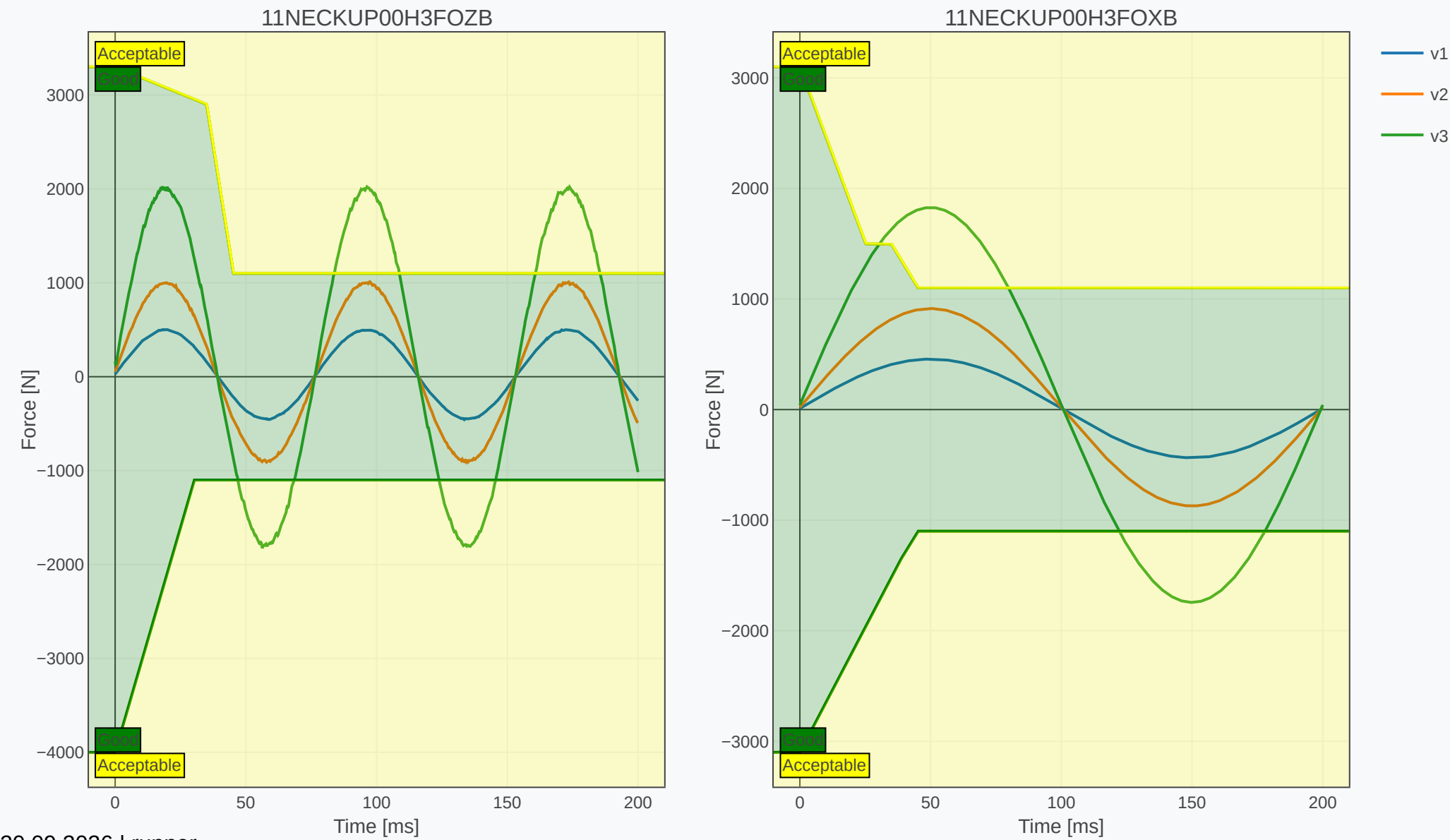
Driver Neck NIJ



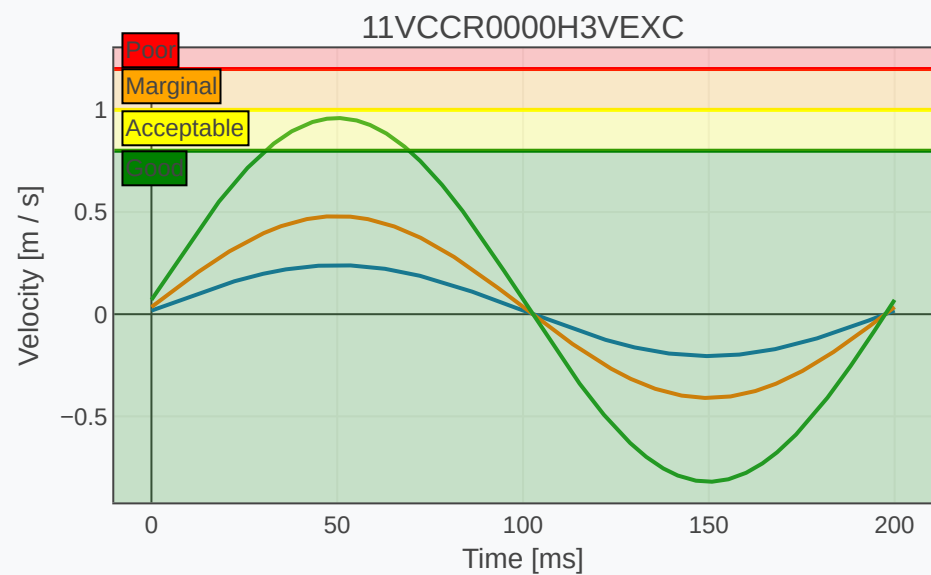
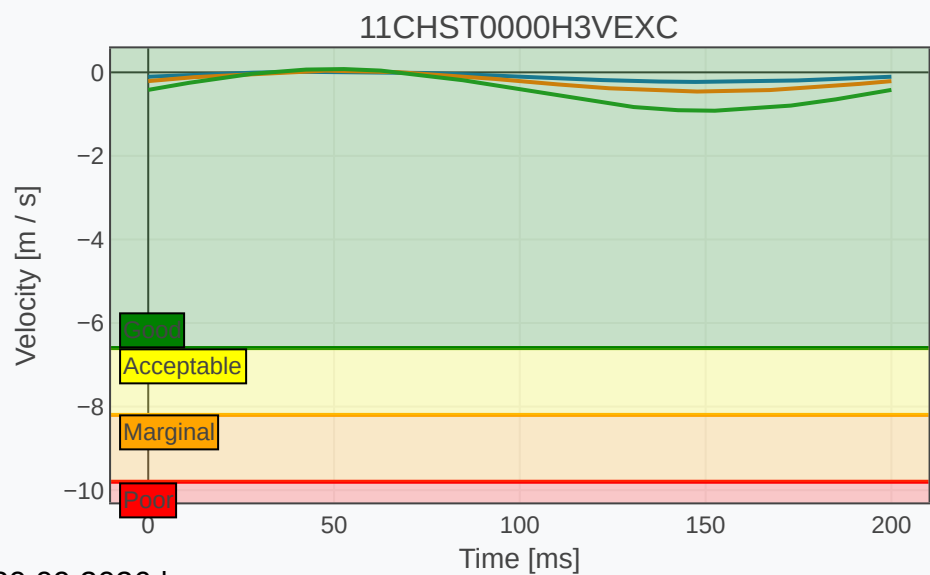
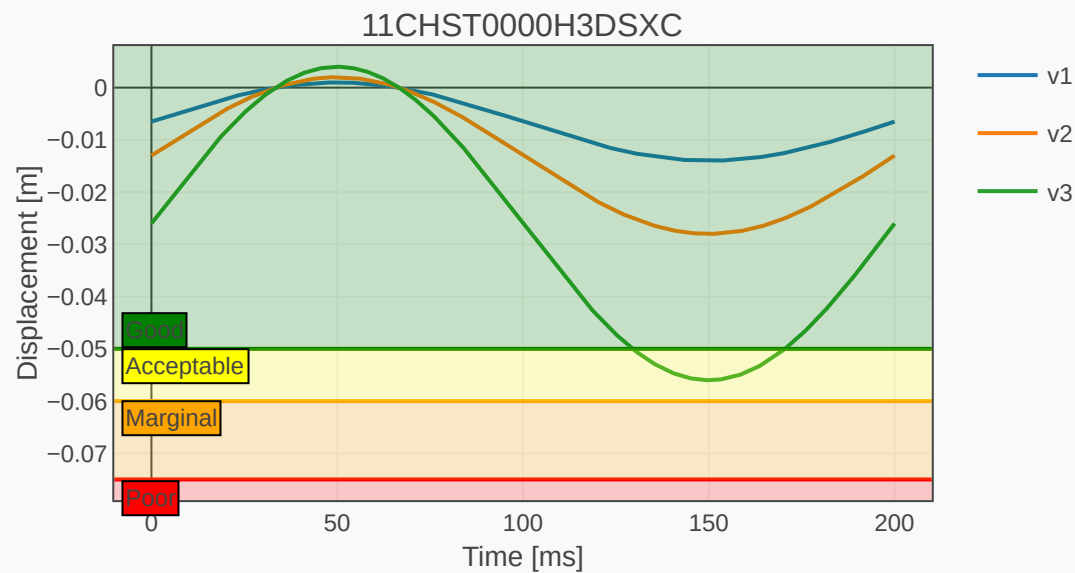
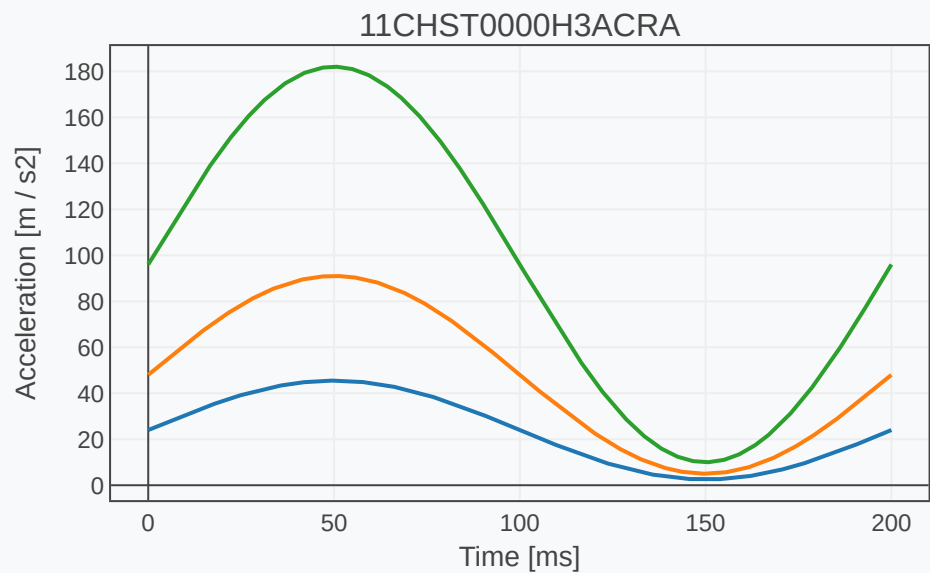
Driver Neck Axial Load



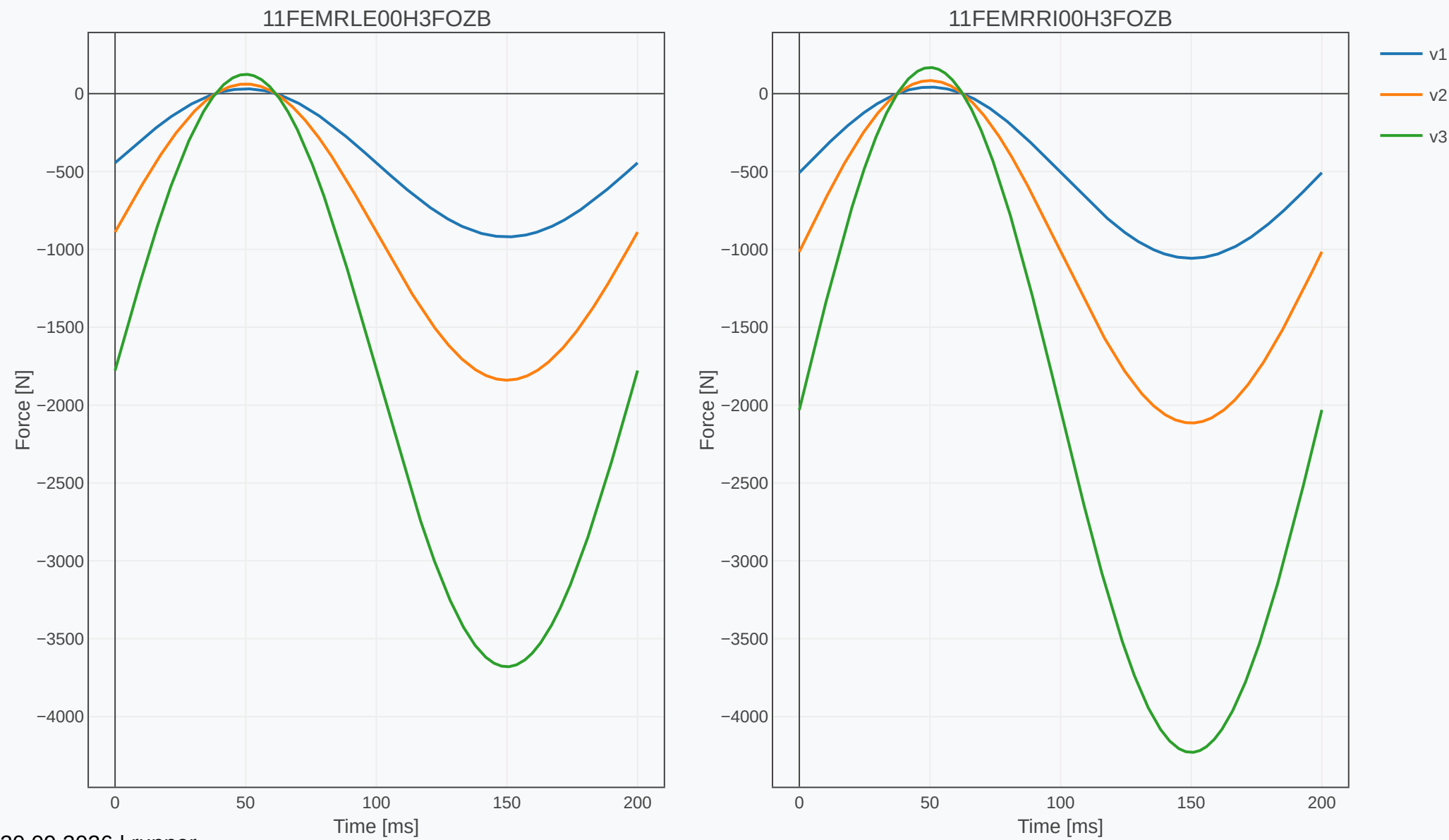
Driver Neck Load Corridors



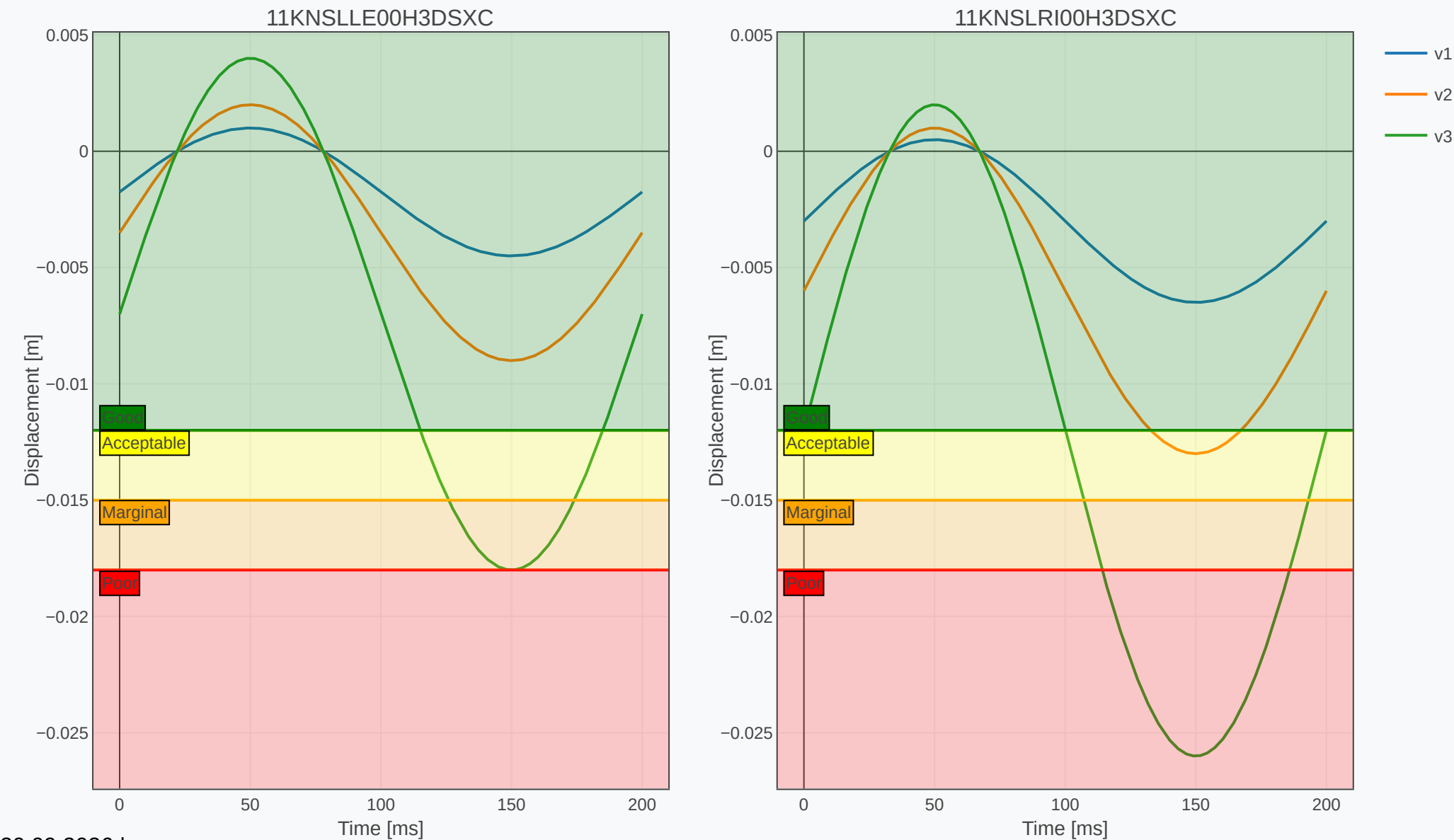
Driver Chest Injury Measures



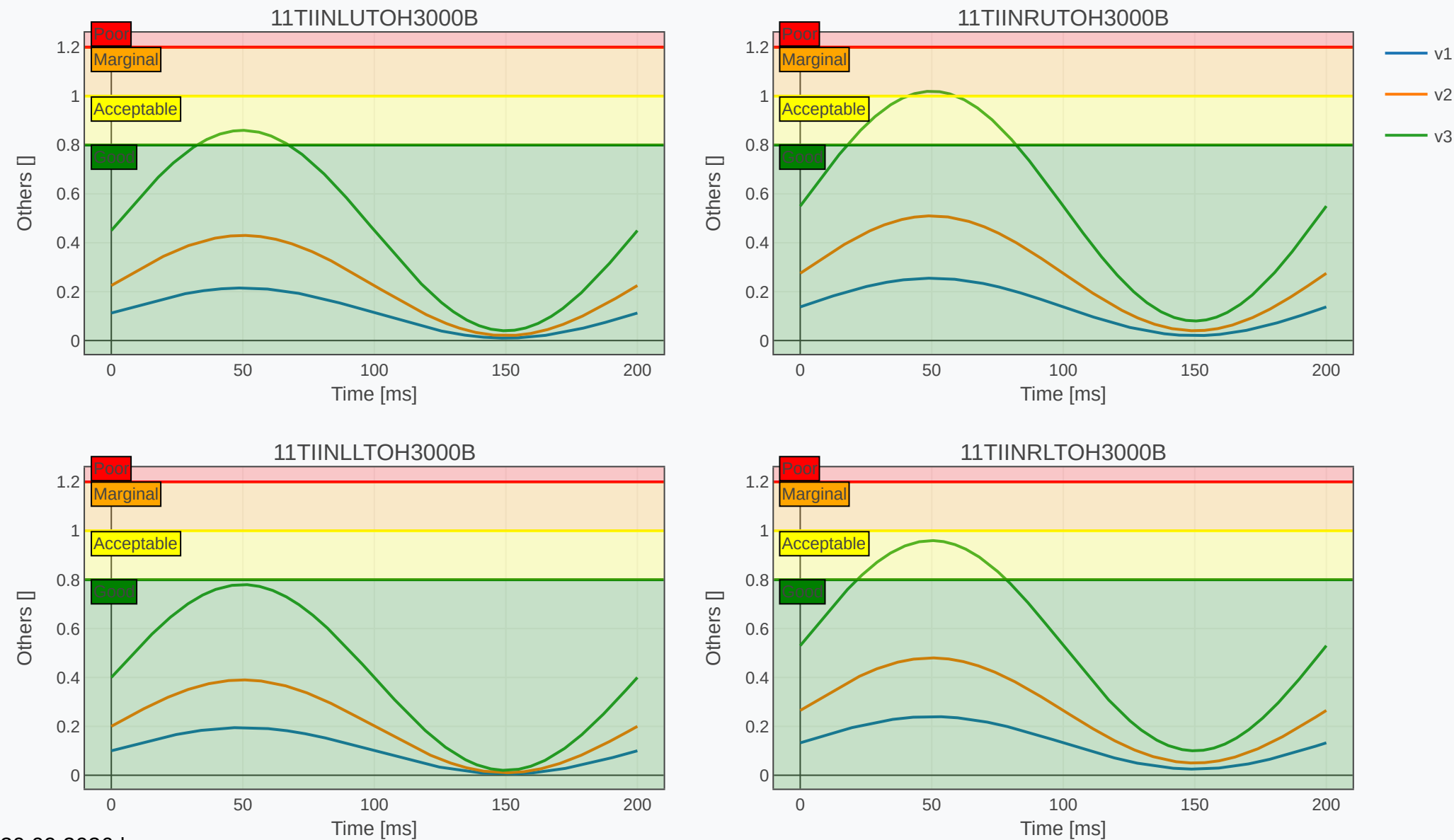
Driver Femur Axial Force



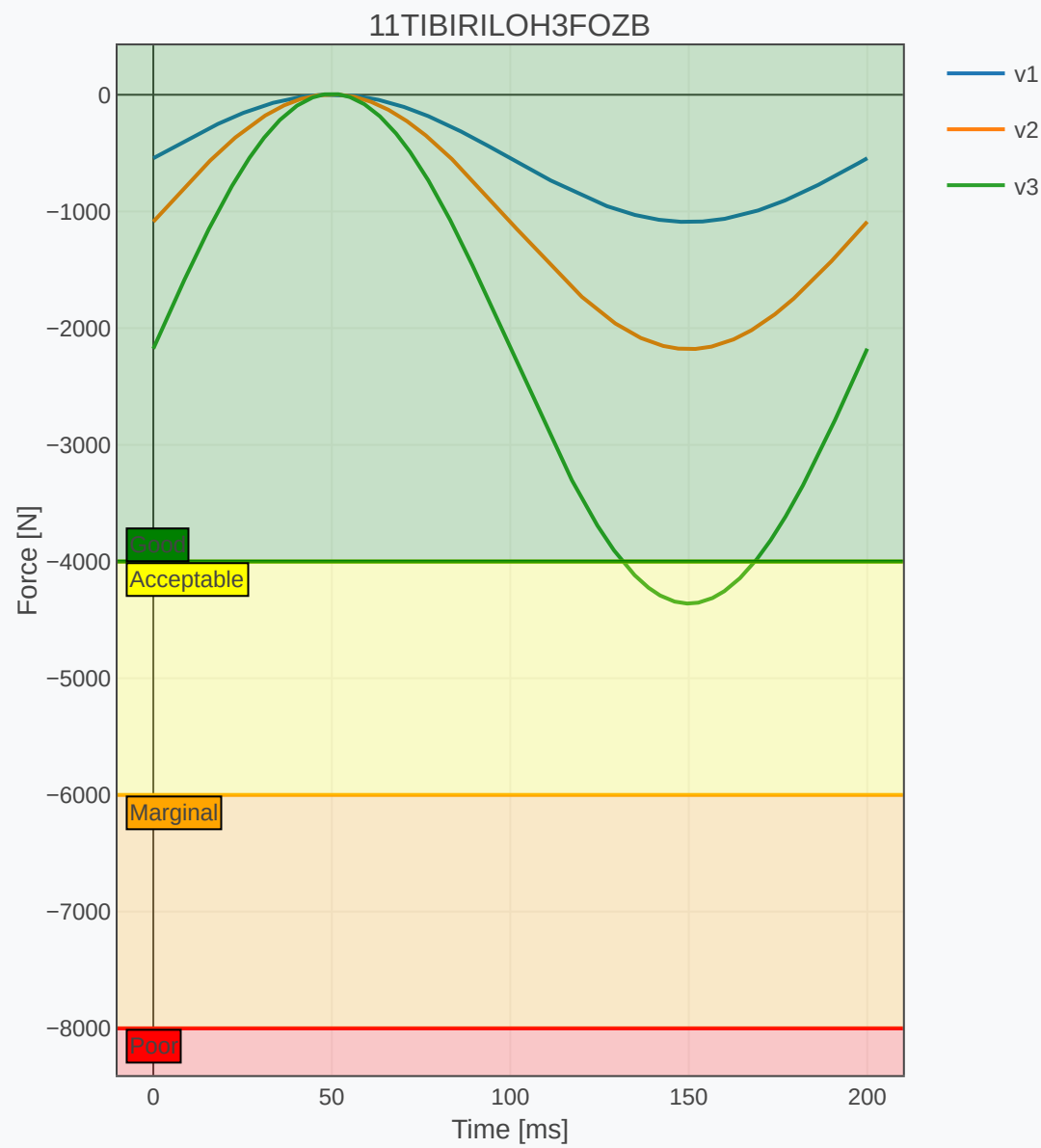
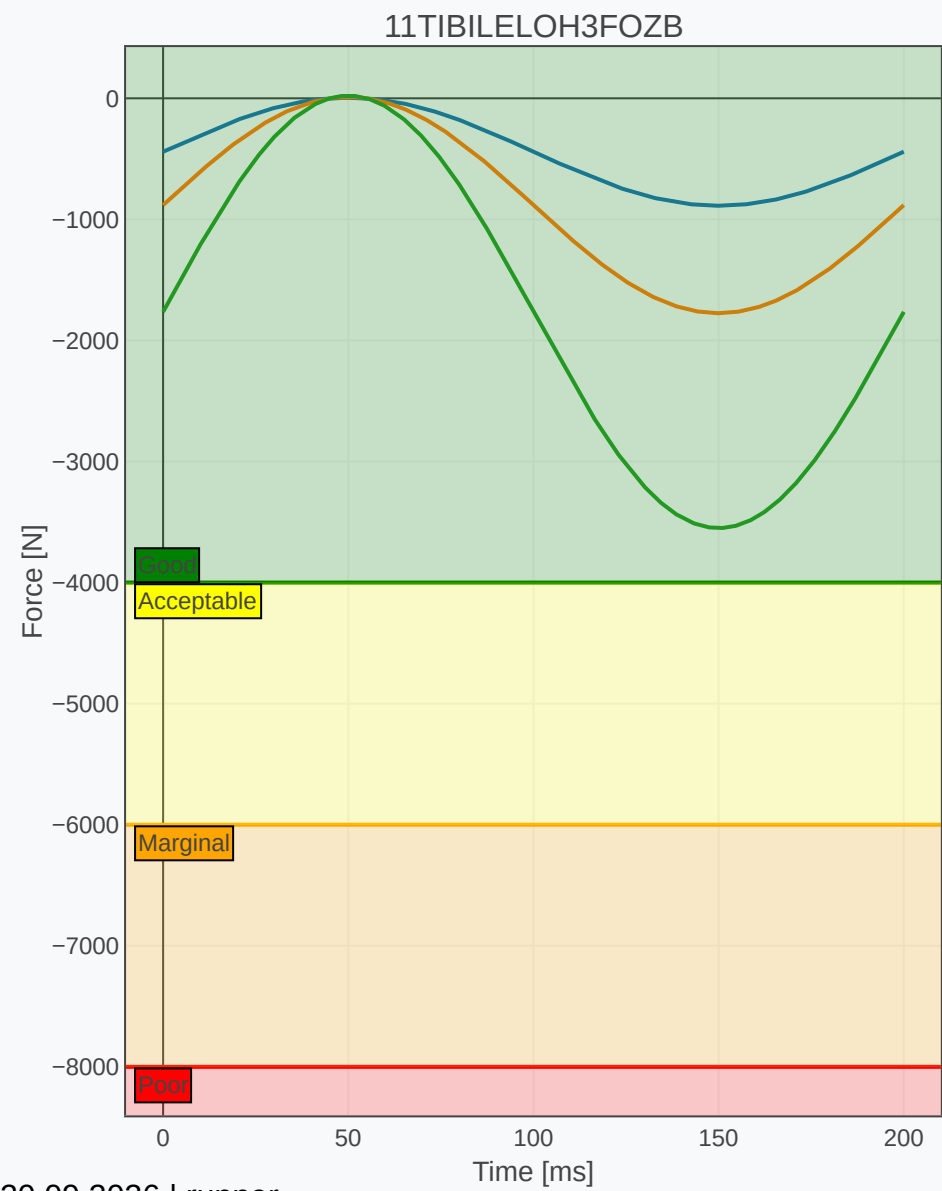
Driver Tibia-Femur Displacement



Driver Tibia Index (Total Moment)



Driver Tibia Axial Force



Driver Foot Acceleration

