

Diagnosis for FL07

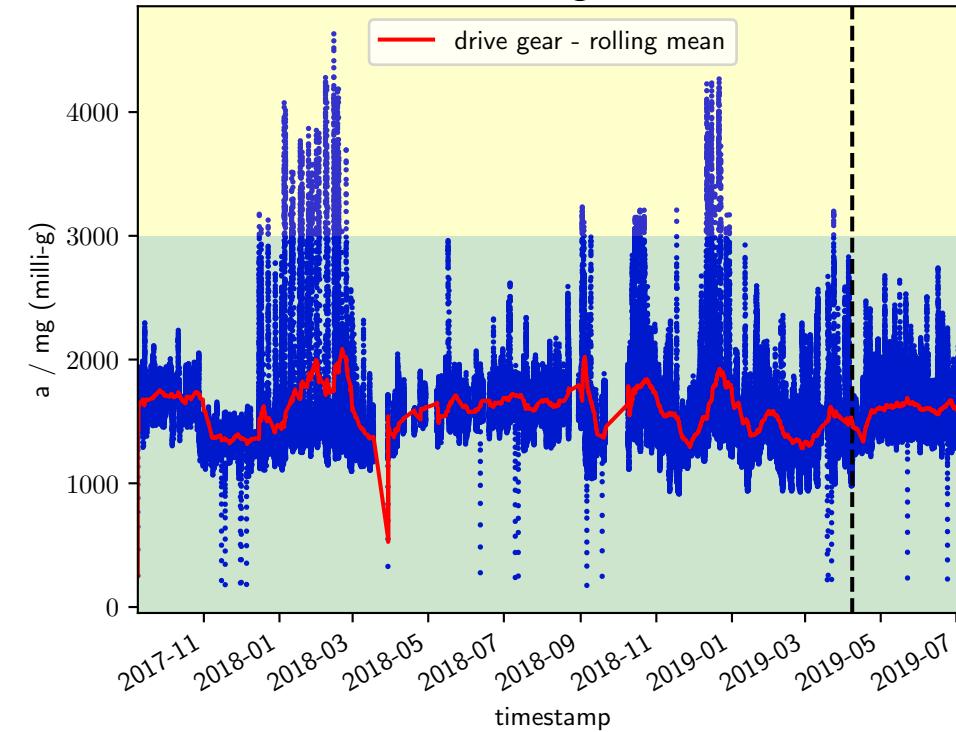
Categorization of measurements

Acceleration sensors

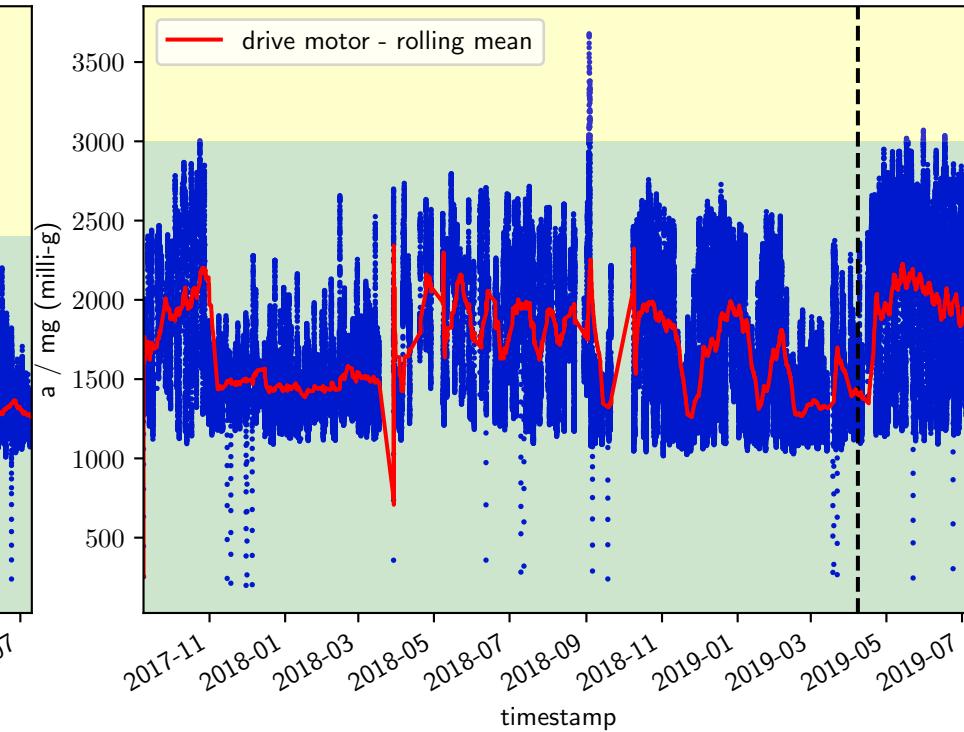
Time interval: all data

Acceleration sensors all data

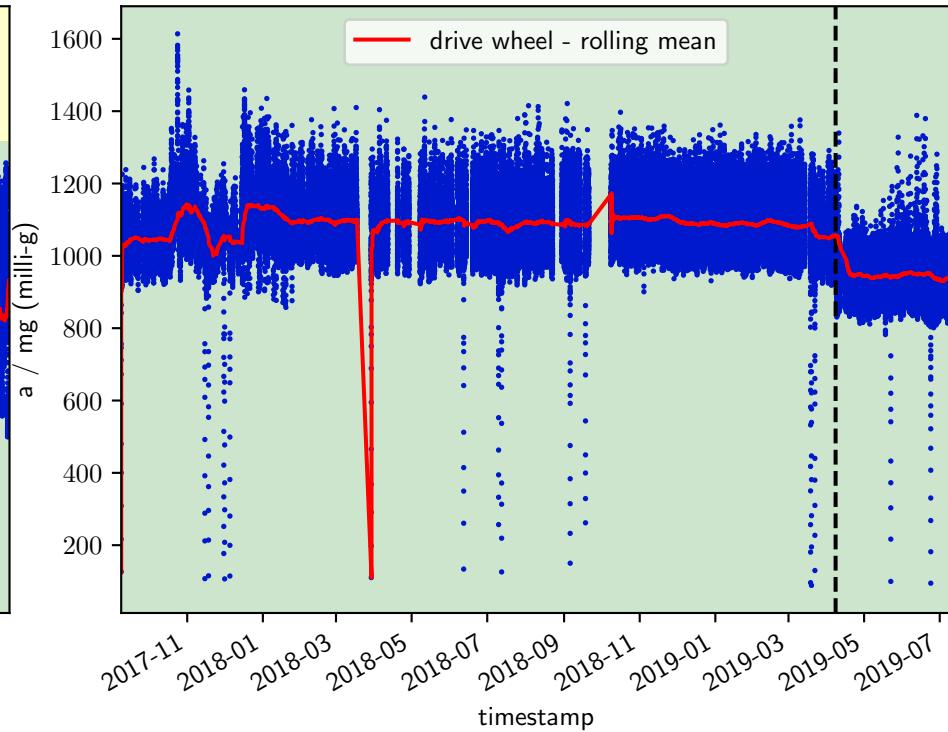
drive gear



drive motor



drive wheel



Good: 151517/152855 = 99%
Satisfactory: 1338/152855 = 1%
Unsatisfactory: 0/152855 = 0%
Unacceptable: 0/152855 = 0%

Satisfactory

Good: 152763/152856 = 100%
Satisfactory: 93/152856 = 0%
Unsatisfactory: 0/152856 = 0%
Unacceptable: 0/152856 = 0%

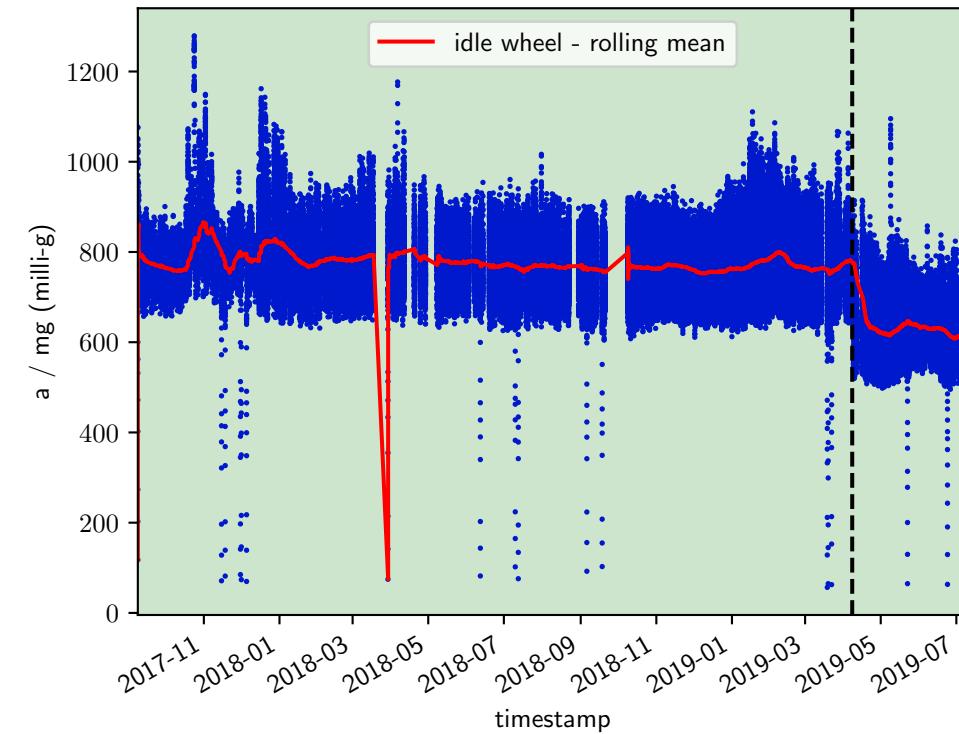
Satisfactory

Good: 152878/152878 = 100%
Satisfactory: 0/152878 = 0%
Unsatisfactory: 0/152878 = 0%
Unacceptable: 0/152878 = 0%

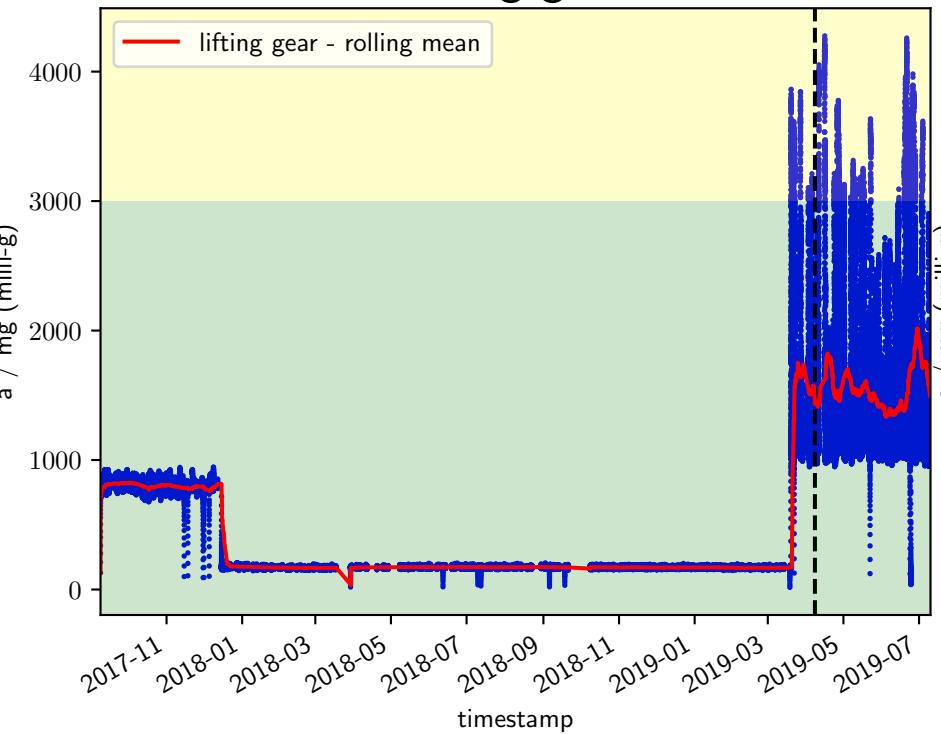
Good

Acceleration sensors all data

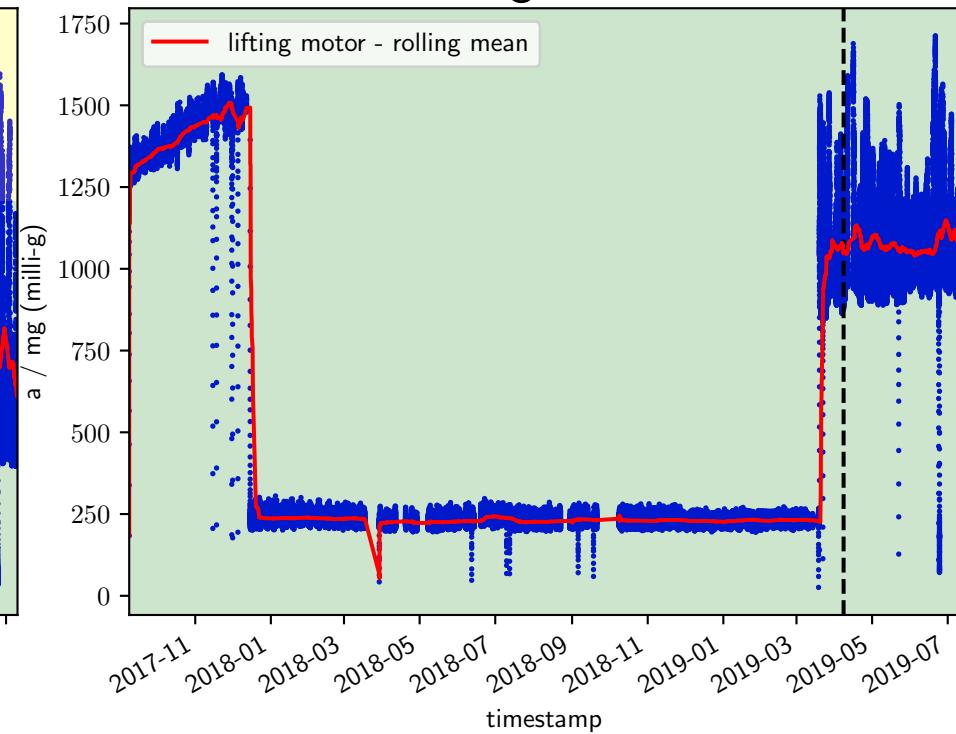
idle wheel



lifting gear



lifting motor



Good: 152878/152878 = 100%
Satisfactory: 0/152878 = 0%
Unsatisfactory: 0/152878 = 0%
Unacceptable: 0/152878 = 0%

Good

Good: 160405/163208 = 98%
Satisfactory: 2803/163208 = 2%
Unsatisfactory: 0/163208 = 0%
Unacceptable: 0/163208 = 0%

Satisfactory

Good: 163219/163219 = 100%
Satisfactory: 0/163219 = 0%
Unsatisfactory: 0/163219 = 0%
Unacceptable: 0/163219 = 0%

Good

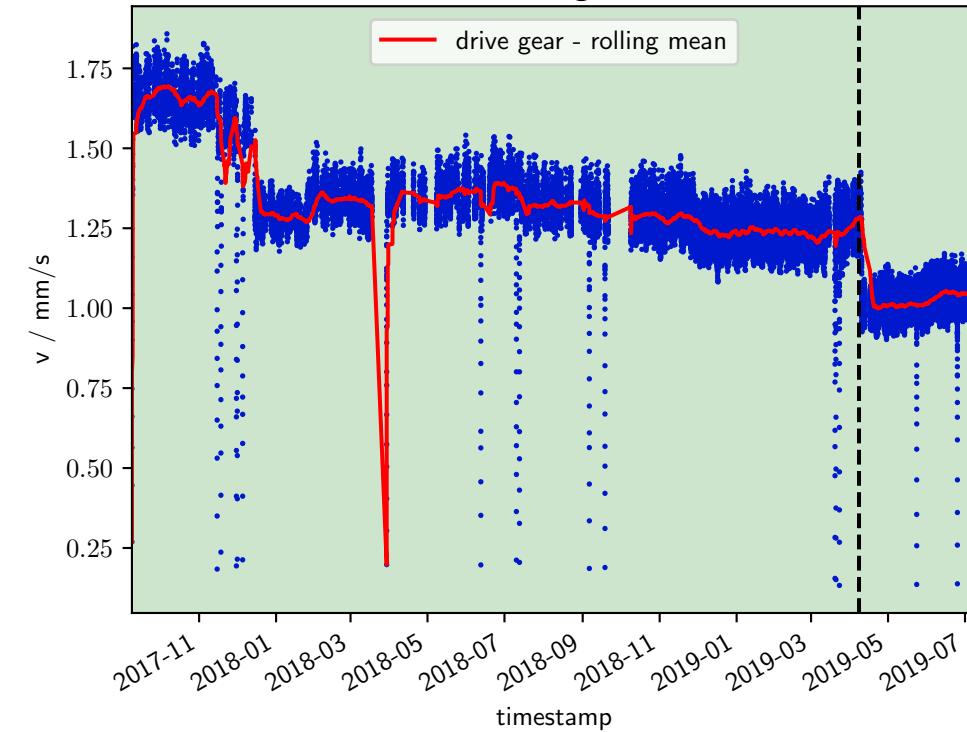
Categorization of measurements

Velocity sensors

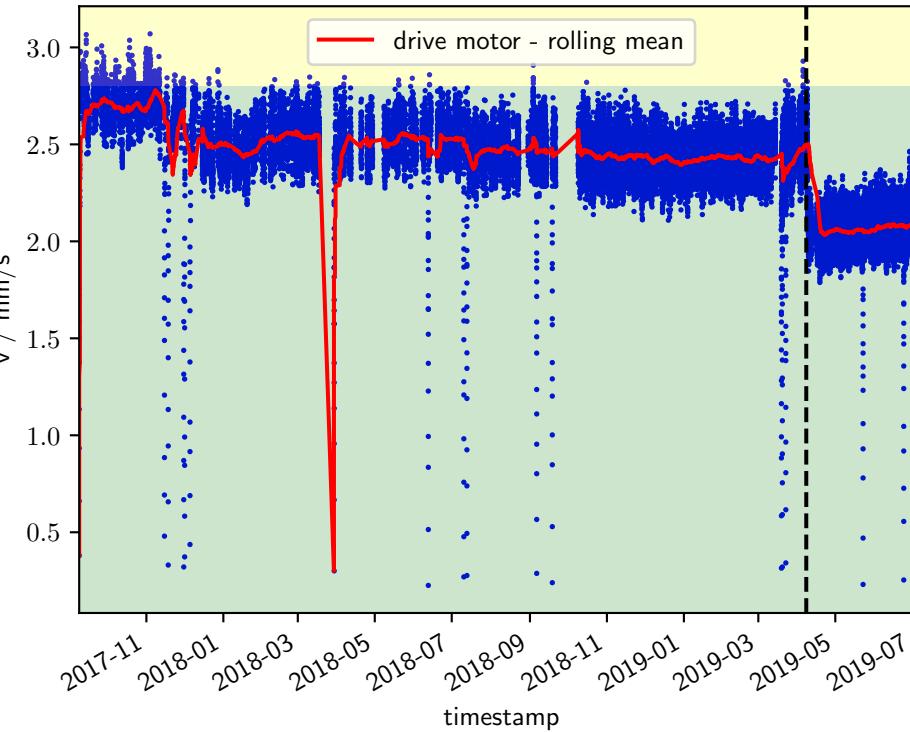
Time interval: all data

Velocity sensors all data

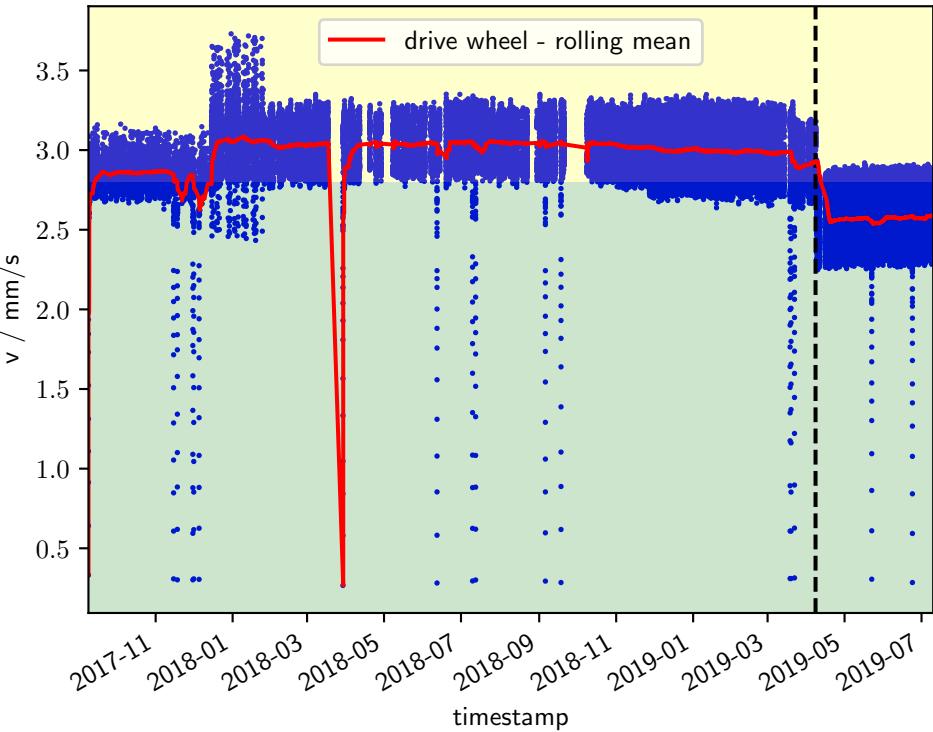
drive gear



drive motor



drive wheel



Good: 42683/42683 = 100%
Satisfactory: 0/42683 = 0%
Unsatisfactory: 0/42683 = 0%
Unacceptable: 0/42683 = 0%

Good

Good: 44132/44521 = 99%
Satisfactory: 389/44521 = 1%
Unsatisfactory: 0/44521 = 0%
Unacceptable: 0/44521 = 0%

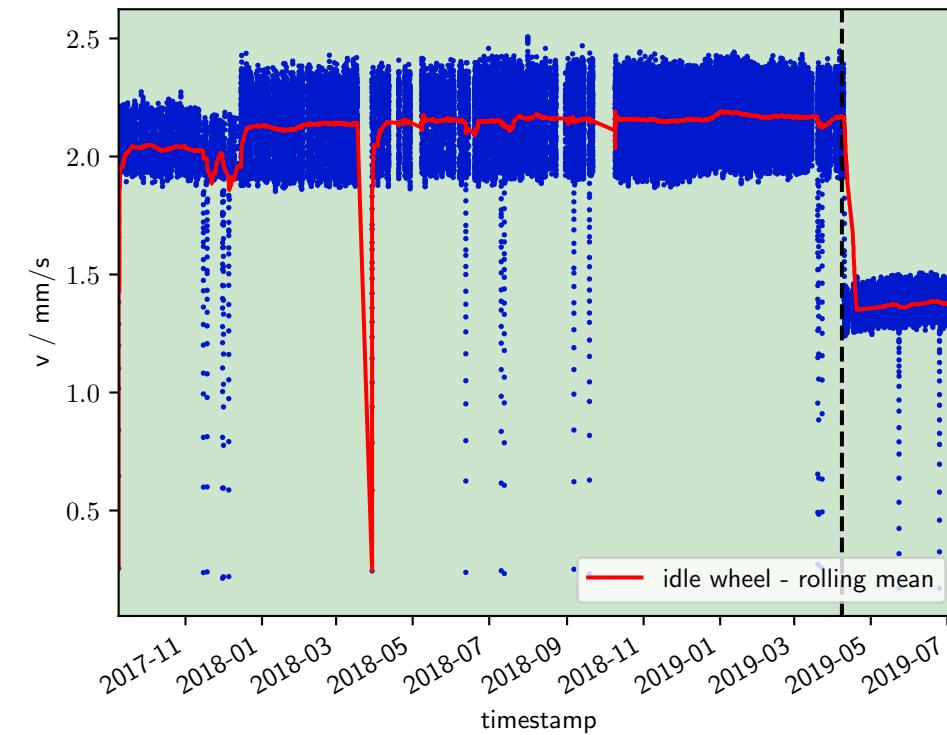
Satisfactory

Good: 18320/71501 = 26%
Satisfactory: 53181/71501 = 74%
Unsatisfactory: 0/71501 = 0%
Unacceptable: 0/71501 = 0%

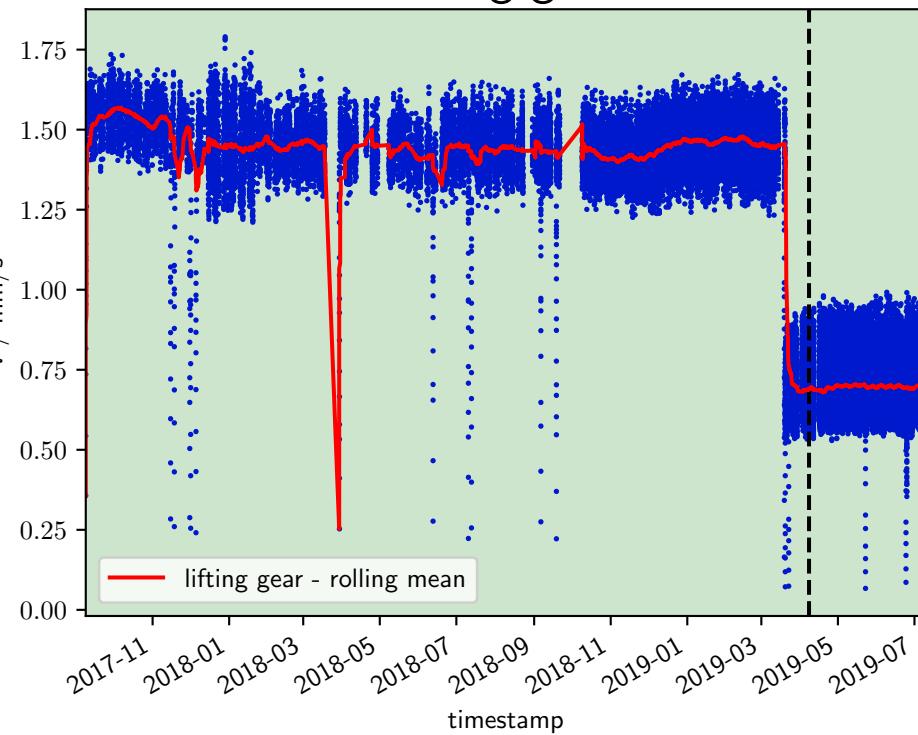
Satisfactory

Velocity sensors all data

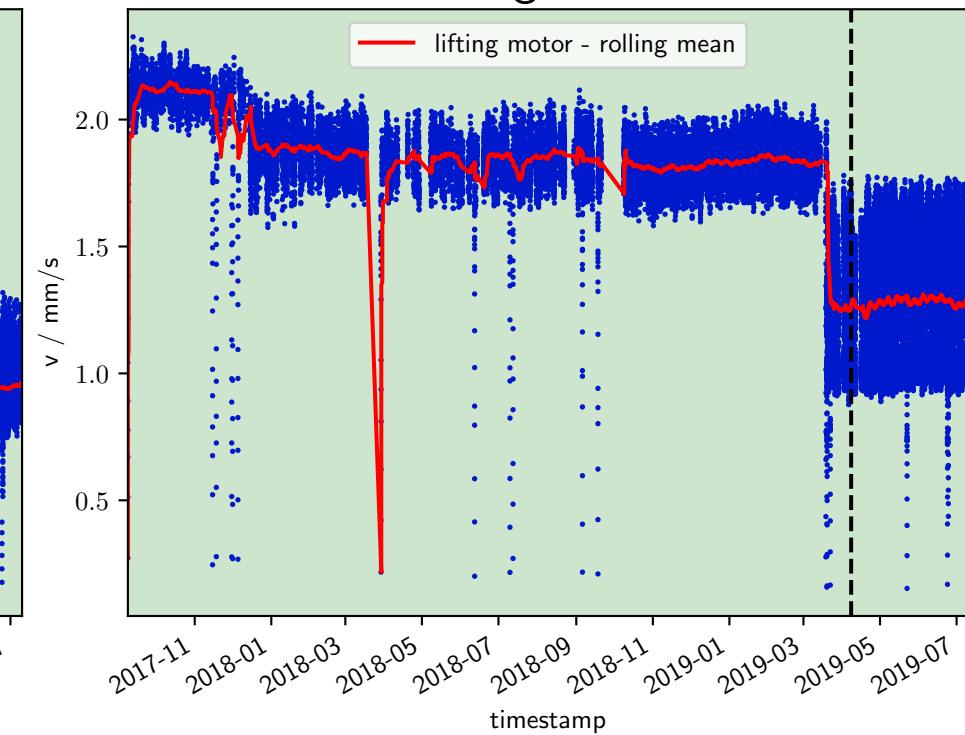
idle wheel



lifting gear



lifting motor



Good: 69650/69650 = 100%
Satisfactory: 0/69650 = 0%
Unsatisfactory: 0/69650 = 0%
Unacceptable: 0/69650 = 0%

Good

Good: 48794/48794 = 100%
Satisfactory: 0/48794 = 0%
Unsatisfactory: 0/48794 = 0%
Unacceptable: 0/48794 = 0%

Good

Good: 49530/49530 = 100%
Satisfactory: 0/49530 = 0%
Unsatisfactory: 0/49530 = 0%
Unacceptable: 0/49530 = 0%

Good

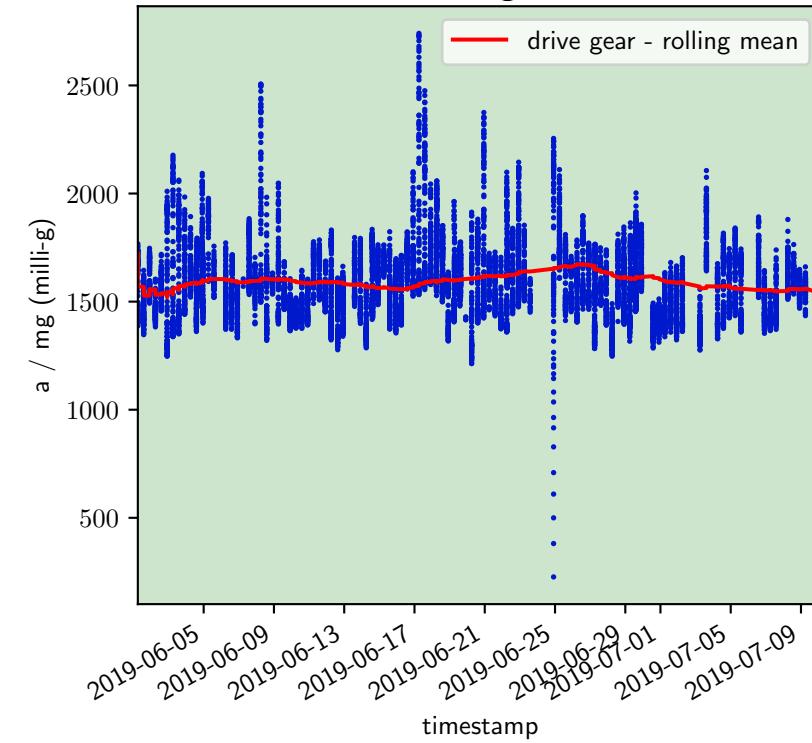
Categorization of measurements

Acceleration sensors

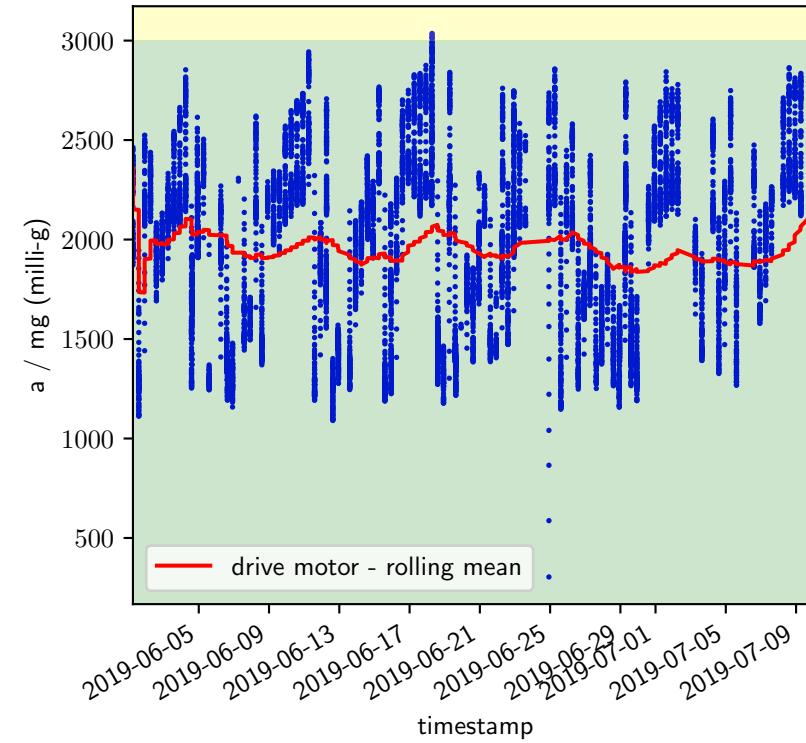
Time interval: from 2019-06-01 to 2019-07-11

Acceleration sensors from 2019-06-01 to 2019-07-11

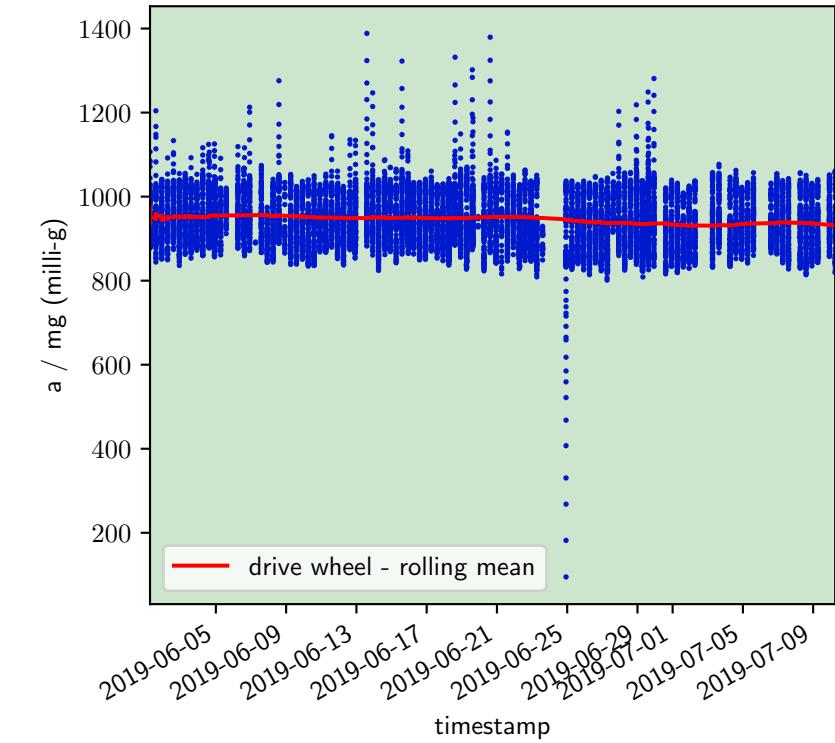
drive gear



drive motor



drive wheel



Good: 12814/12814 = 100%
Satisfactory: 0/12814 = 0%
Unsatisfactory: 0/12814 = 0%
Unacceptable: 0/12814 = 0%

Good

Good: 12807/12814 = 100%
Satisfactory: 7/12814 = 0%
Unsatisfactory: 0/12814 = 0%
Unacceptable: 0/12814 = 0%

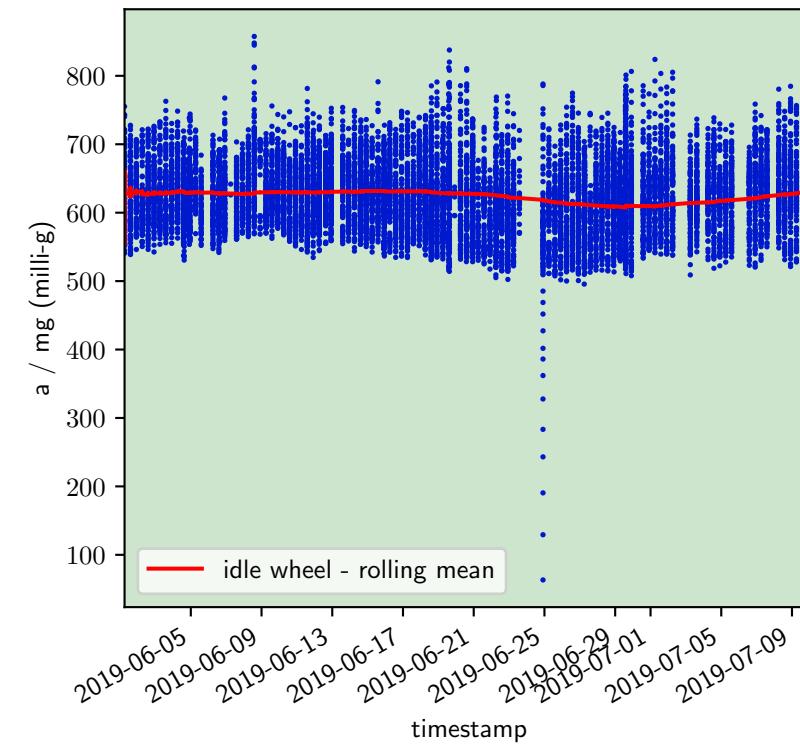
Satisfactory

Good: 12839/12839 = 100%
Satisfactory: 0/12839 = 0%
Unsatisfactory: 0/12839 = 0%
Unacceptable: 0/12839 = 0%

Good

Acceleration sensors from 2019-06-01 to 2019-07-11

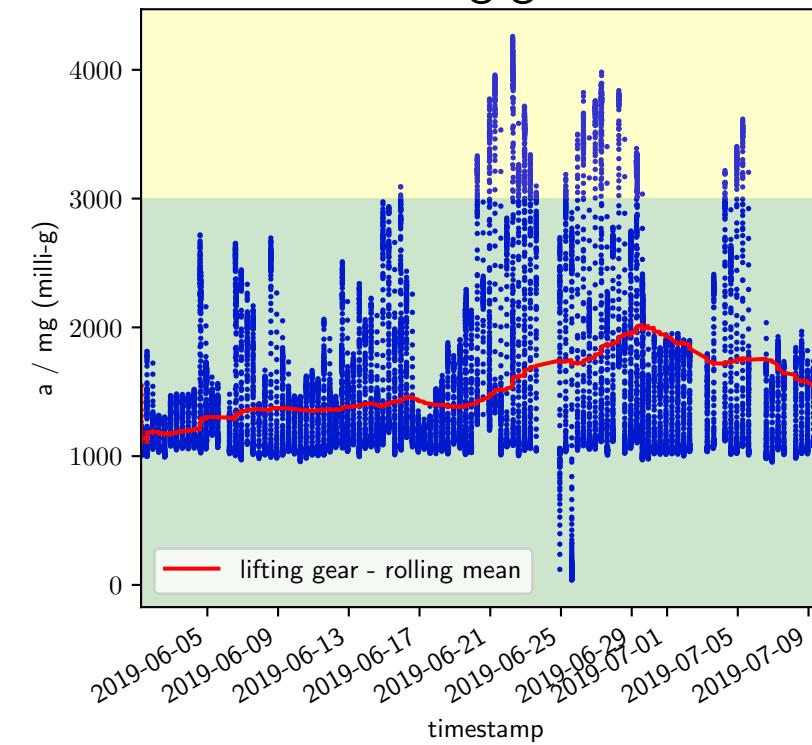
idle wheel



Good: 12840/12840 = 100%
Satisfactory: 0/12840 = 0%
Unsatisfactory: 0/12840 = 0%
Unacceptable: 0/12840 = 0%

Good

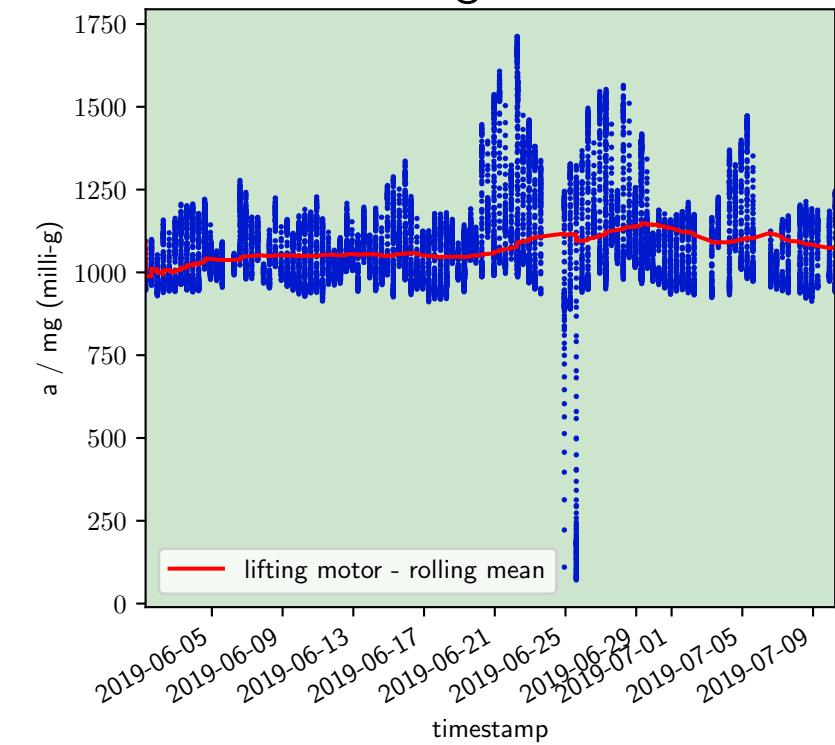
lifting gear



Good: 15534/16574 = 94%
Satisfactory: 1040/16574 = 6%
Unsatisfactory: 0/16574 = 0%
Unacceptable: 0/16574 = 0%

Satisfactory

lifting motor



Good: 16586/16586 = 100%
Satisfactory: 0/16586 = 0%
Unsatisfactory: 0/16586 = 0%
Unacceptable: 0/16586 = 0%

Good

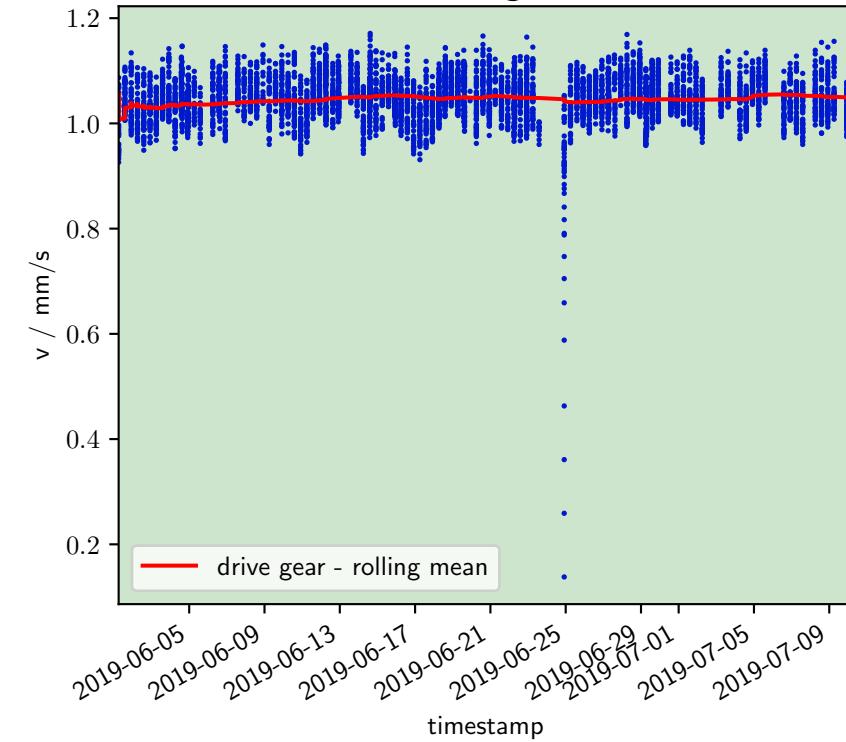
Categorization of measurements

Velocity sensors

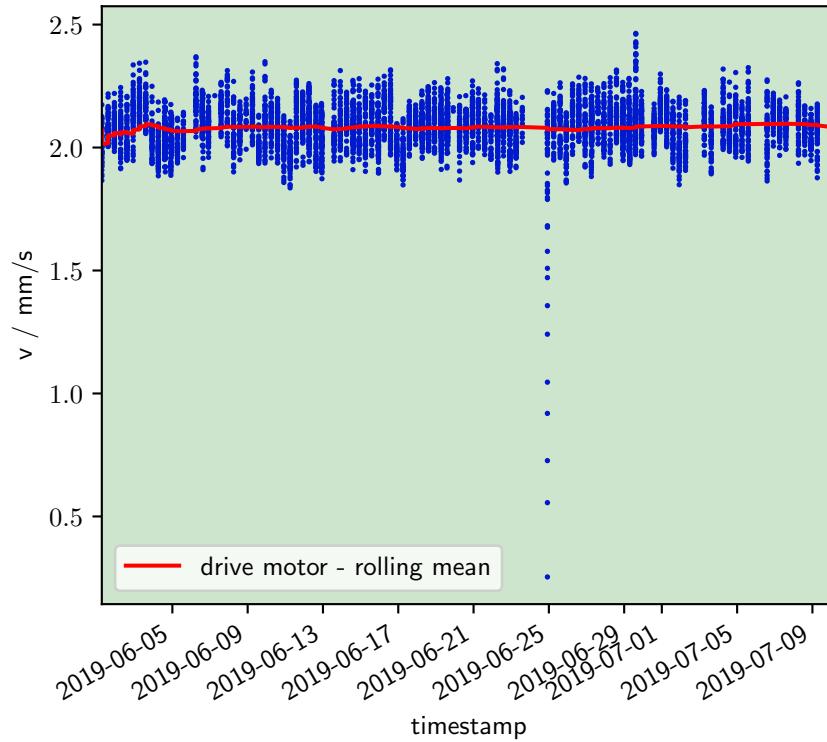
Time interval: from 2019-06-01 to 2019-07-11

Velocity sensors from 2019-06-01 to 2019-07-11

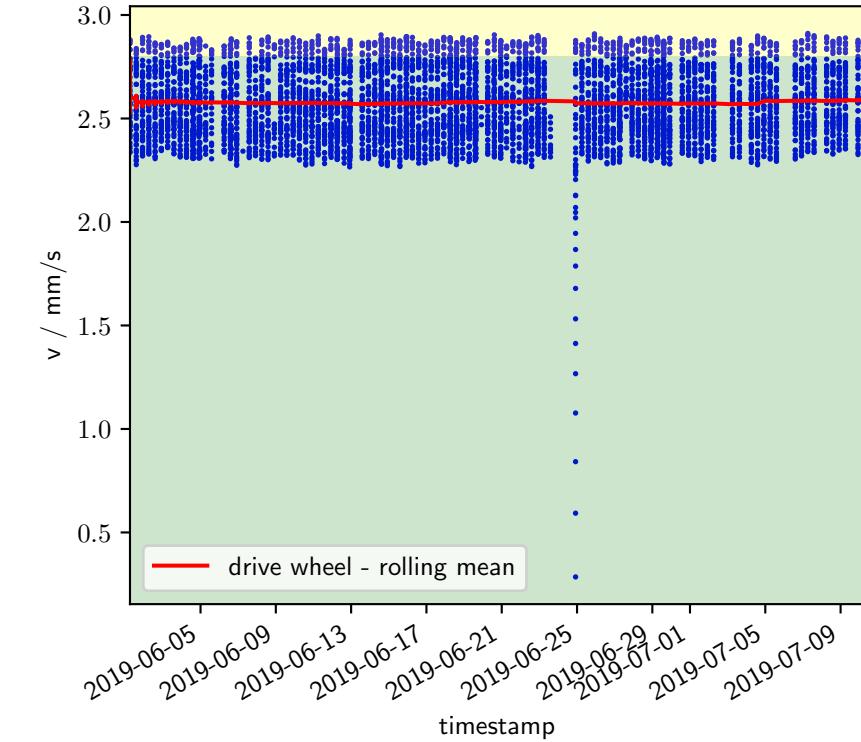
drive gear



drive motor



drive wheel



Good: 5663/5663 = 100%
Satisfactory: 0/5663 = 0%
Unsatisfactory: 0/5663 = 0%
Unacceptable: 0/5663 = 0%

Good

Good: 5999/5999 = 100%
Satisfactory: 0/5999 = 0%
Unsatisfactory: 0/5999 = 0%
Unacceptable: 0/5999 = 0%

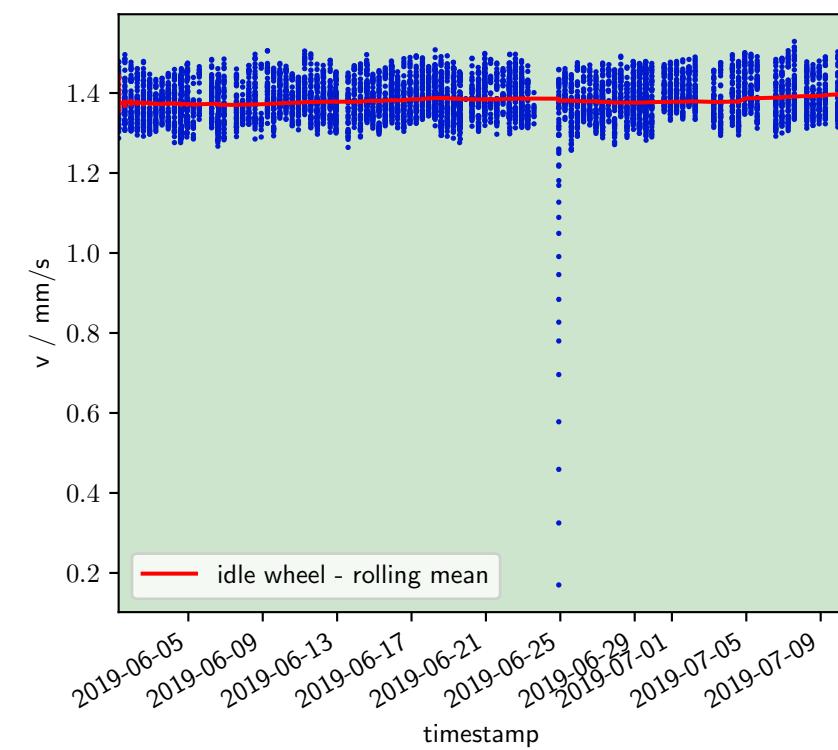
Good

Good: 5316/6022 = 88%
Satisfactory: 706/6022 = 12%
Unsatisfactory: 0/6022 = 0%
Unacceptable: 0/6022 = 0%

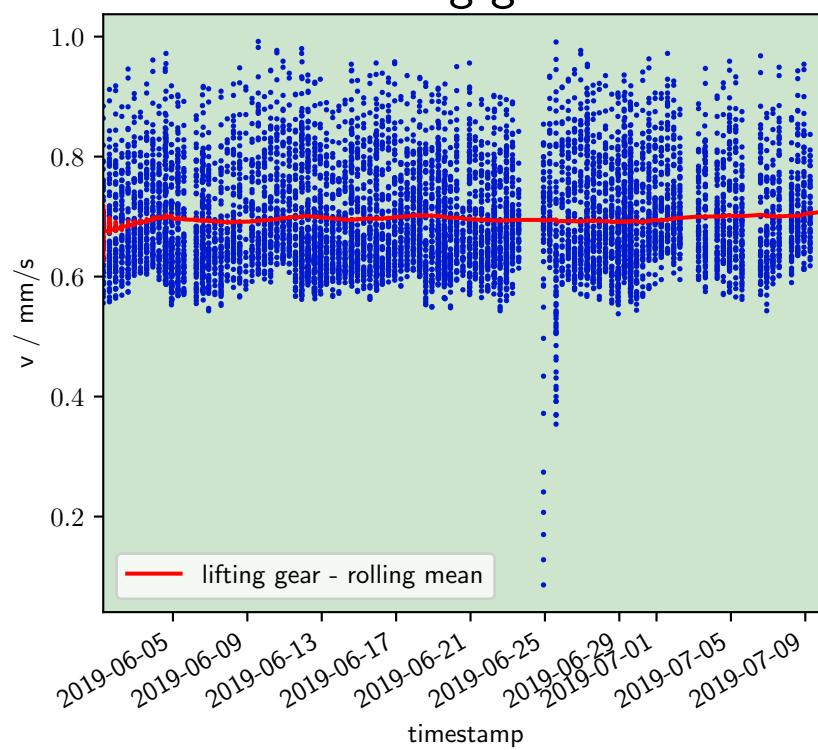
Satisfactory

Velocity sensors from 2019-06-01 to 2019-07-11

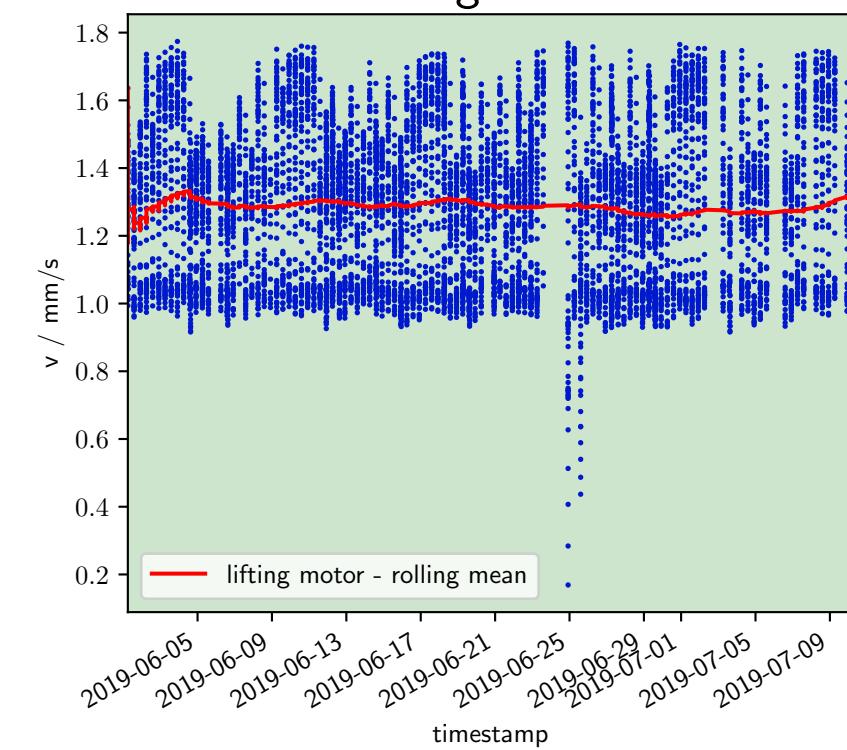
idle wheel



lifting gear



lifting motor



Good: 5683/5683 = 100%
Satisfactory: 0/5683 = 0%
Unsatisfactory: 0/5683 = 0%
Unacceptable: 0/5683 = 0%

Good: 7460/7460 = 100%
Satisfactory: 0/7460 = 0%
Unsatisfactory: 0/7460 = 0%
Unacceptable: 0/7460 = 0%

Good: 7690/7690 = 100%
Satisfactory: 0/7690 = 0%
Unsatisfactory: 0/7690 = 0%
Unacceptable: 0/7690 = 0%

Good

Good

Good

Compatibility check for velocity sensors

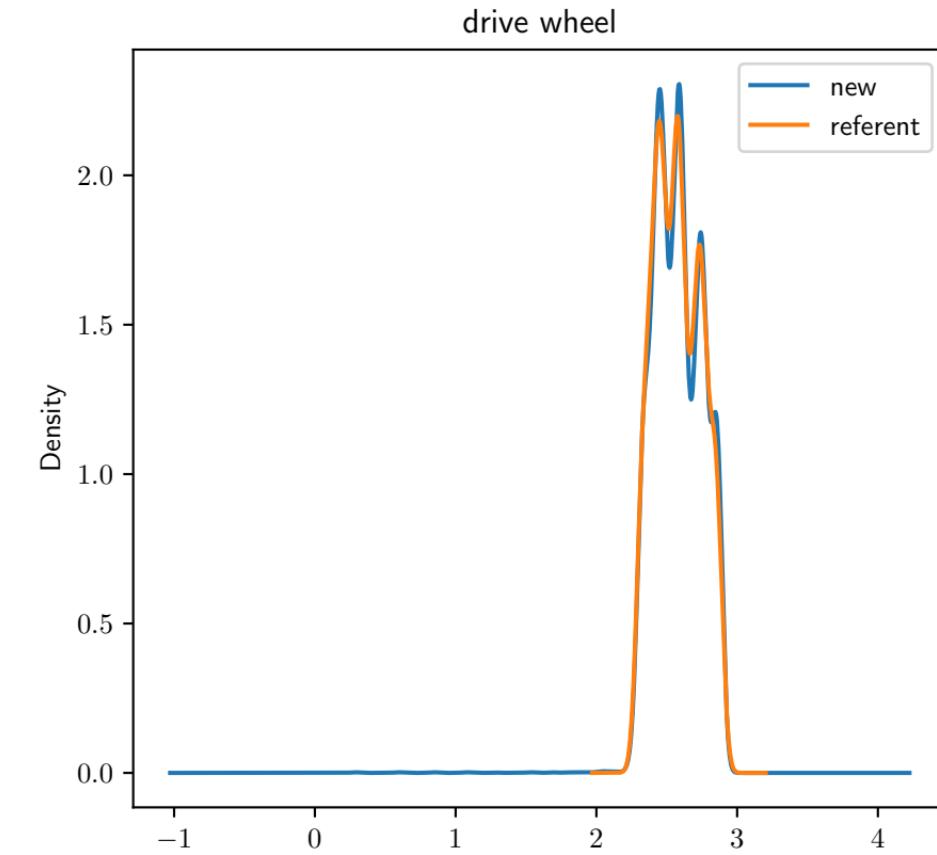
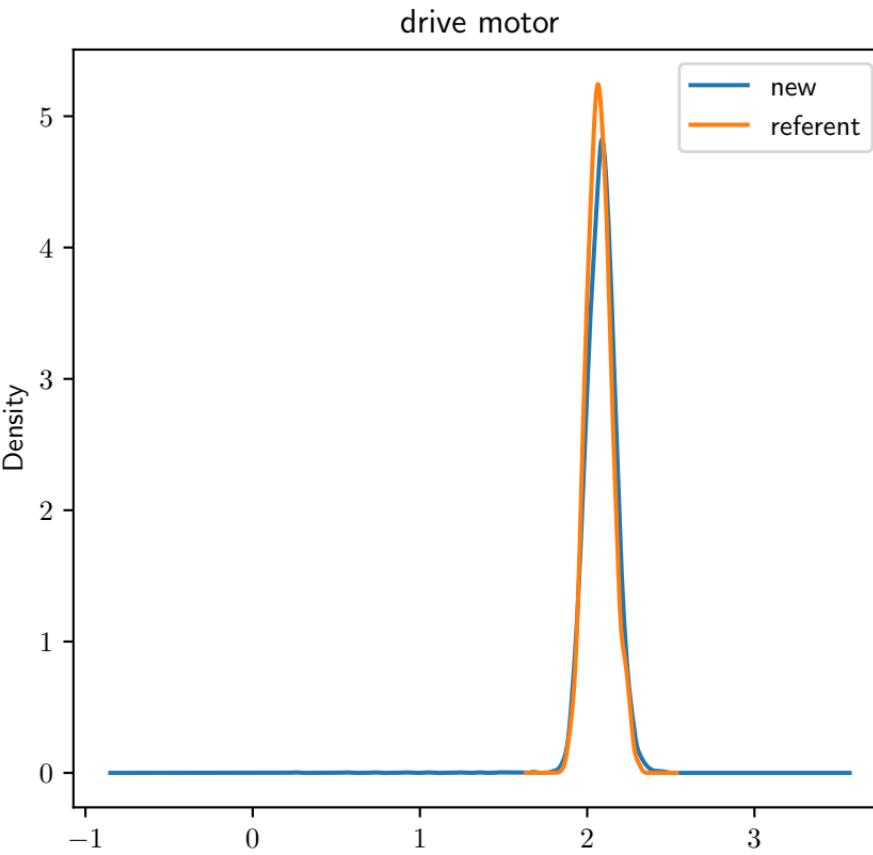
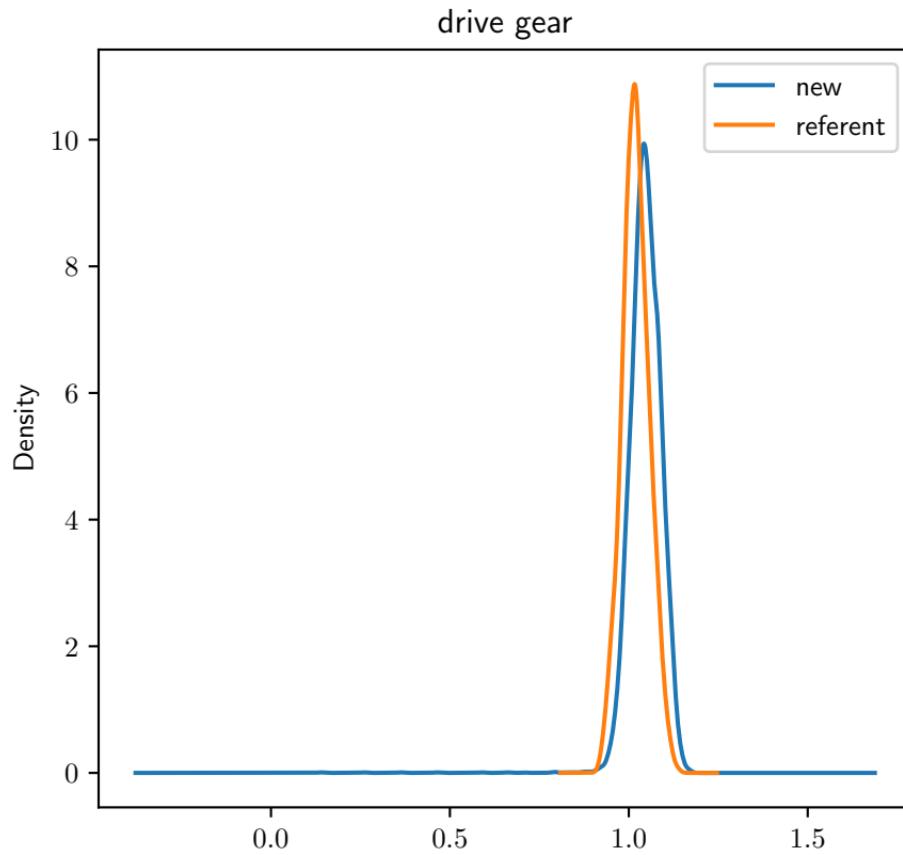
New data:from 2019-06-01 until 2019-07-11

Referent data: last week

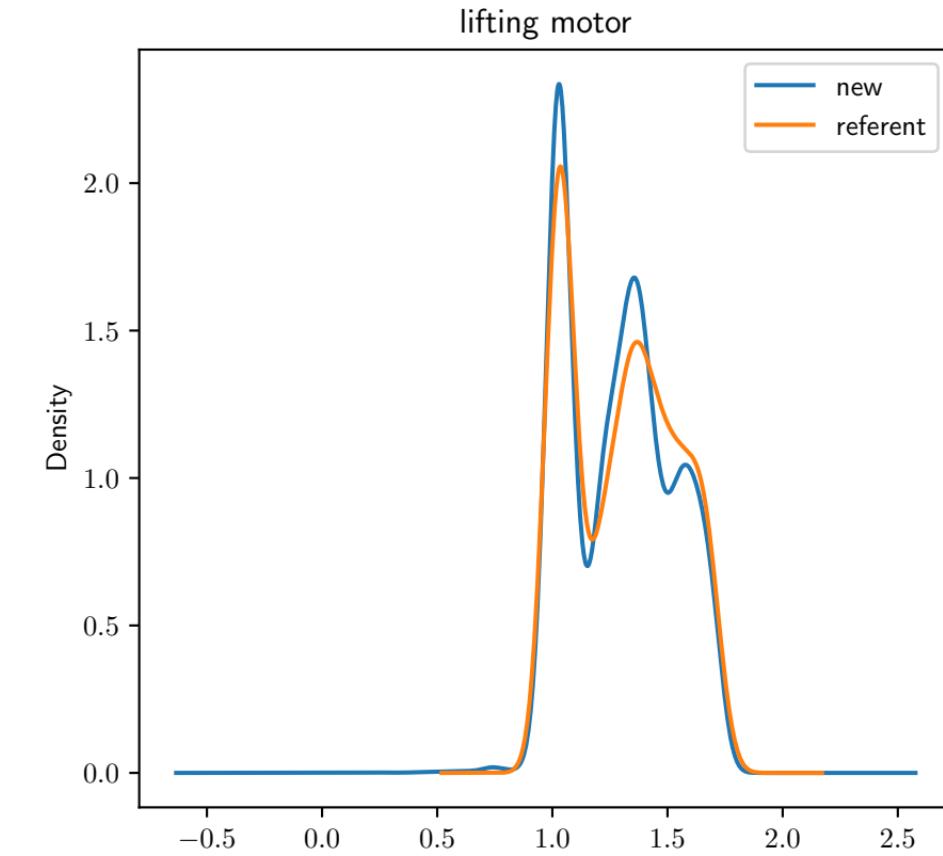
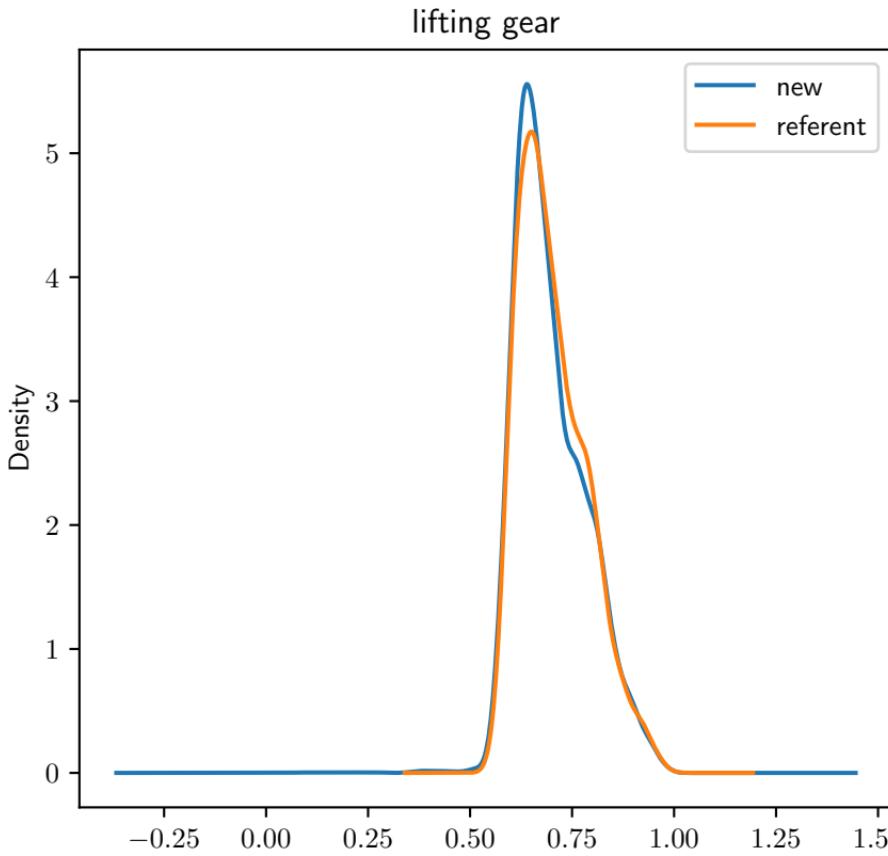
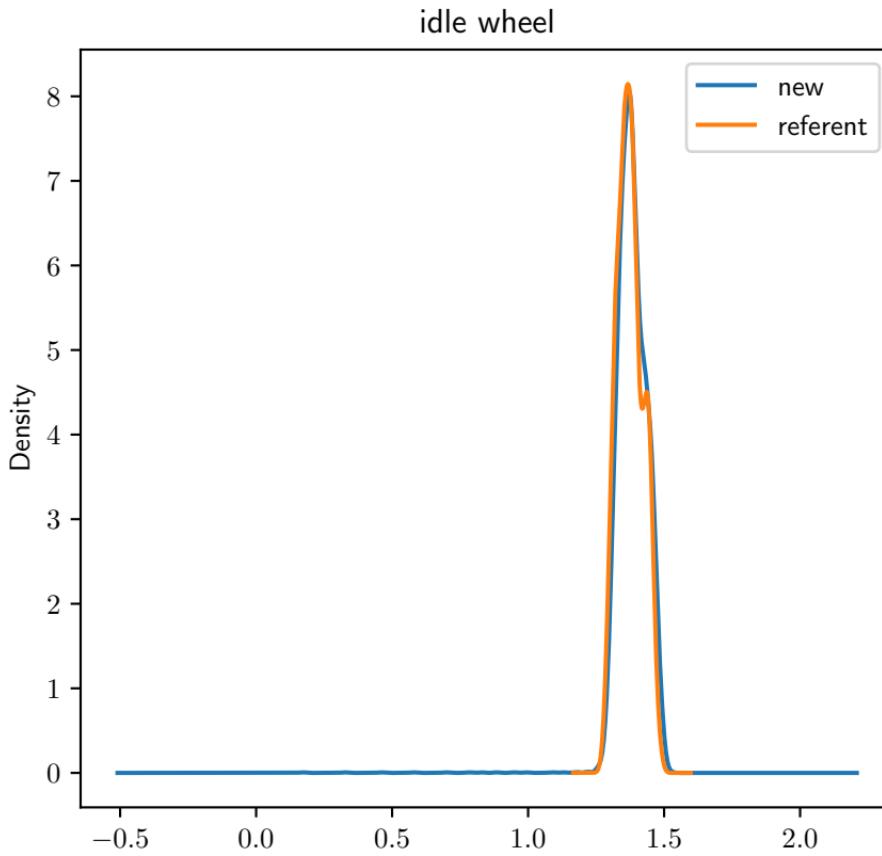
Velocity sensors

drive gear	drive motor	drive wheel	idle wheel	lifting gear	lifting motor
$\mu_{ref} = 1.02$ $\sigma_{ref} = 0.04$ $\sigma_{ref}^2 = 0.0$	$\mu_{ref} = 2.07$ $\sigma_{ref} = 0.07$ $\sigma_{ref}^2 = 0.01$	$\mu_{ref} = 2.58$ $\sigma_{ref} = 0.16$ $\sigma_{ref}^2 = 0.03$	$\mu_{ref} = 1.37$ $\sigma_{ref} = 0.05$ $\sigma_{ref}^2 = 0.0$	$\mu_{ref} = 0.7$ $\sigma_{ref} = 0.08$ $\sigma_{ref}^2 = 0.01$	$\mu_{ref} = 1.3$ $\sigma_{ref} = 0.23$ $\sigma_{ref}^2 = 0.05$
$\mu_{new} = 1.05$ $\sigma_{new} = 0.05$ $\sigma_{new}^2 = 0.0$	$\mu_{new} = 2.08$ $\sigma_{new} = 0.1$ $\sigma_{new}^2 = 0.01$	$\mu_{new} = 2.58$ $\sigma_{new} = 0.17$ $\sigma_{new}^2 = 0.03$	$\mu_{new} = 1.38$ $\sigma_{new} = 0.06$ $\sigma_{new}^2 = 0.0$	$\mu_{new} = 0.7$ $\sigma_{new} = 0.09$ $\sigma_{new}^2 = 0.01$	$\mu_{new} = 1.29$ $\sigma_{new} = 0.23$ $\sigma_{new}^2 = 0.05$
$good_{cnt}/all_{cnt}$ 5583 / 5663 = 99%	$good_{cnt}/all_{cnt}$ 5928 / 5999 = 99%	$good_{cnt}/all_{cnt}$ 6008 / 6022 = 100%	$good_{cnt}/all_{cnt}$ 5663 / 5683 = 100%	$good_{cnt}/all_{cnt}$ 7415 / 7460 = 99%	$good_{cnt}/all_{cnt}$ 7682 / 7690 = 100%
GOOD FIT	GOOD FIT	GOOD FIT	GOOD FIT	GOOD FIT	GOOD FIT

Distribution for drive sensors (velocity)



Distribution for other sensors (velocity)

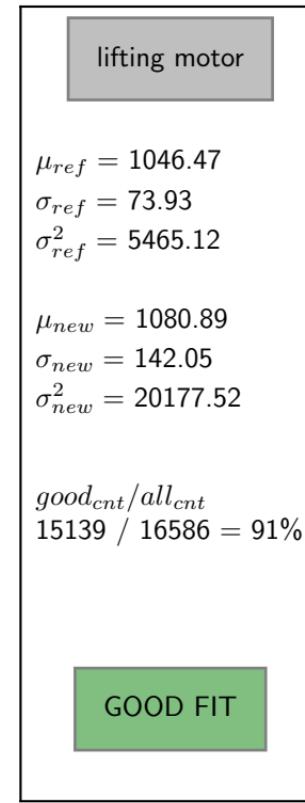
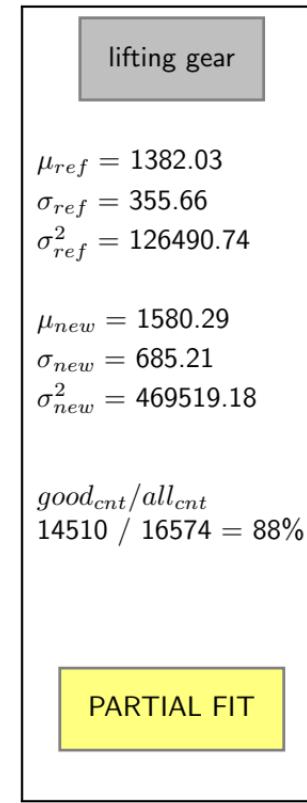
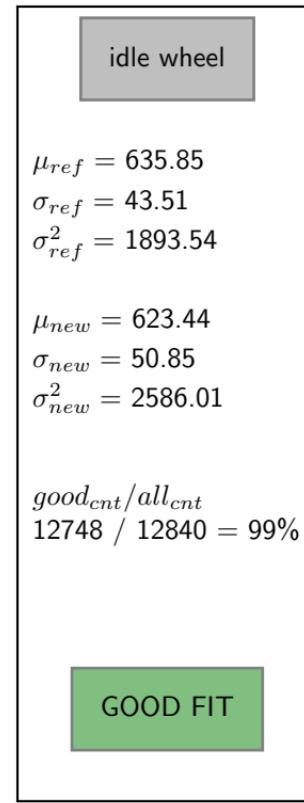
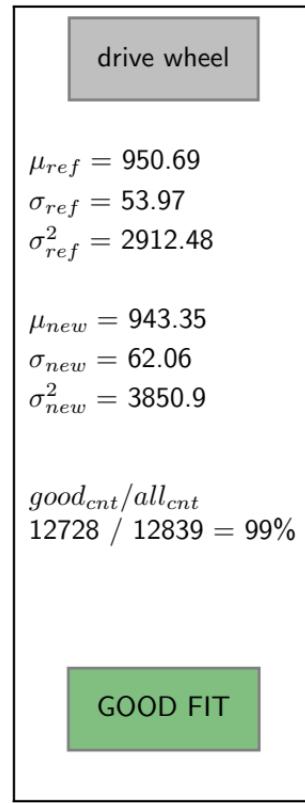
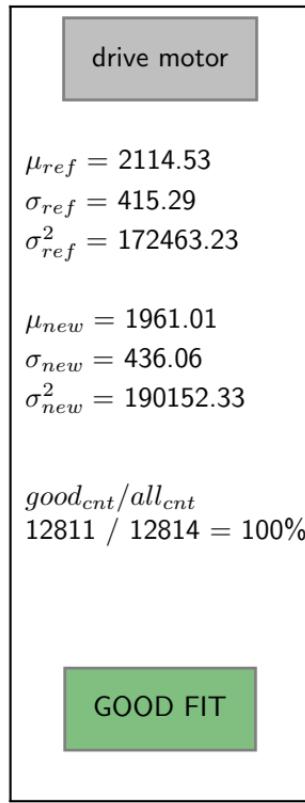
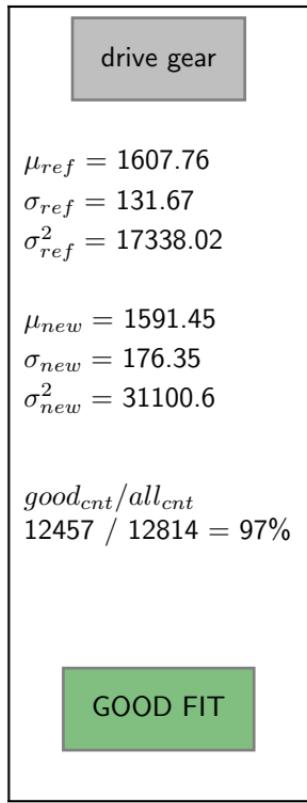


Compatibility check for acceleration sensors

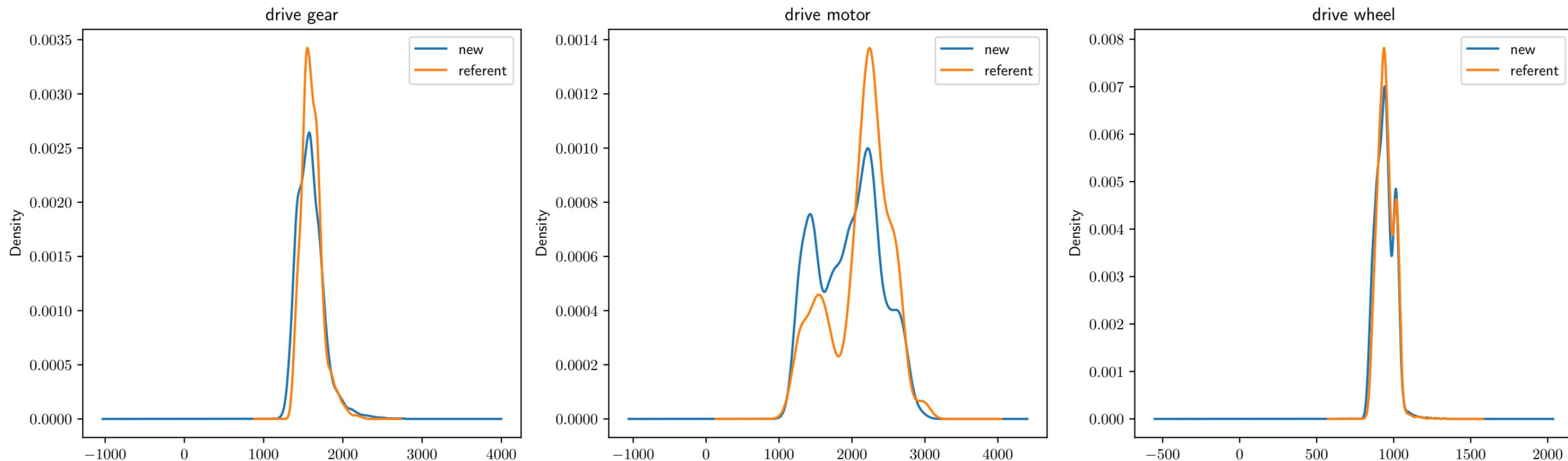
New data:from 2019-06-01 until 2019-07-11

Referent data: last week

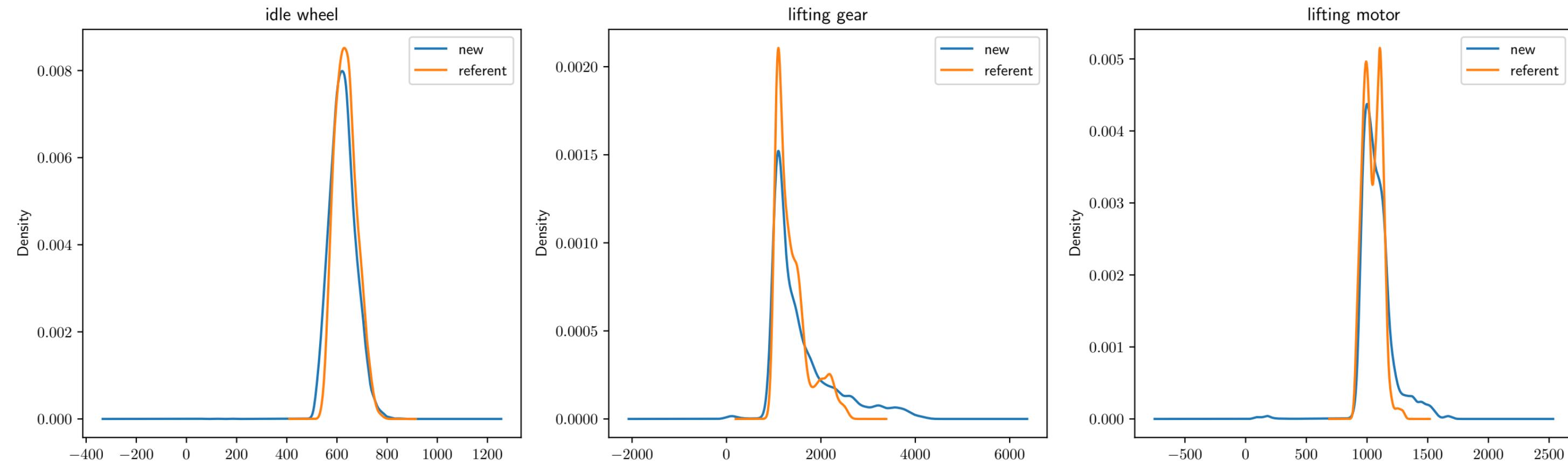
Acceleration sensors



Distribution for drive sensors (acceleration)



Distribution for other sensors (acceleration)



Compatibility check for velocity sensors

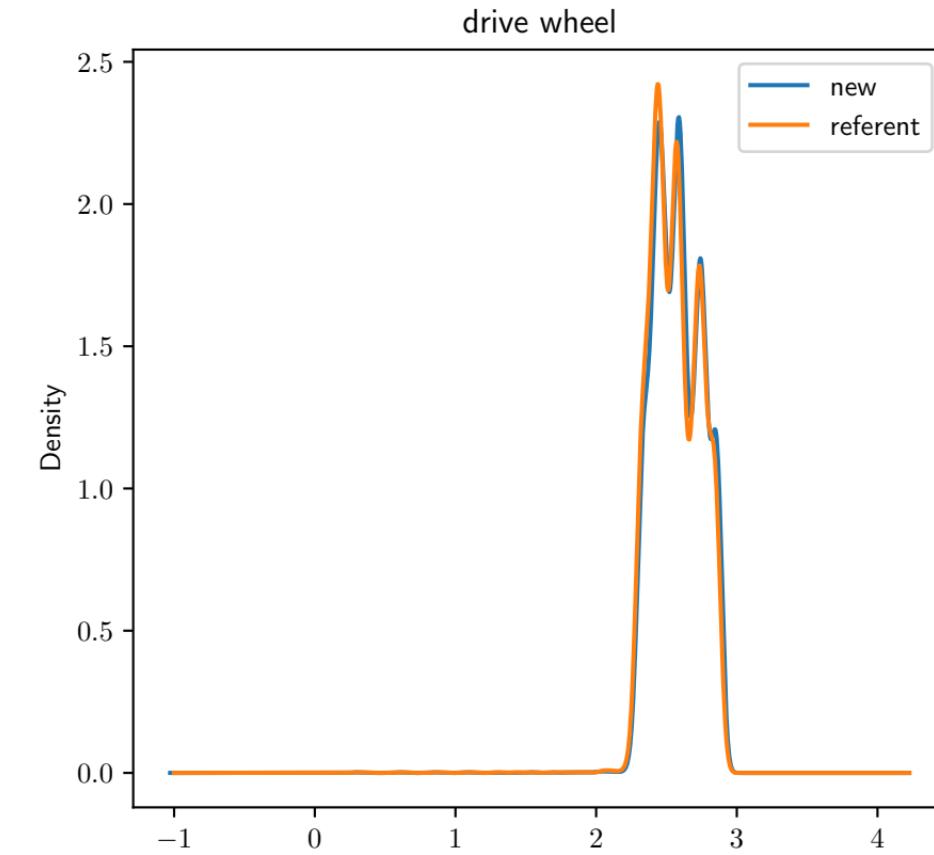
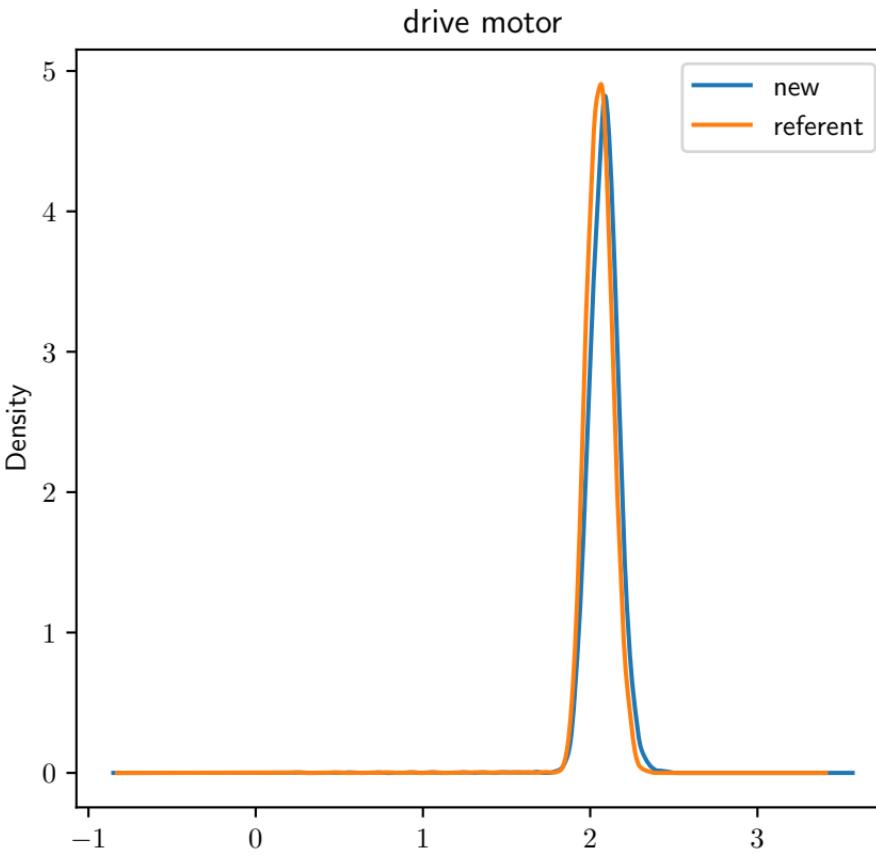
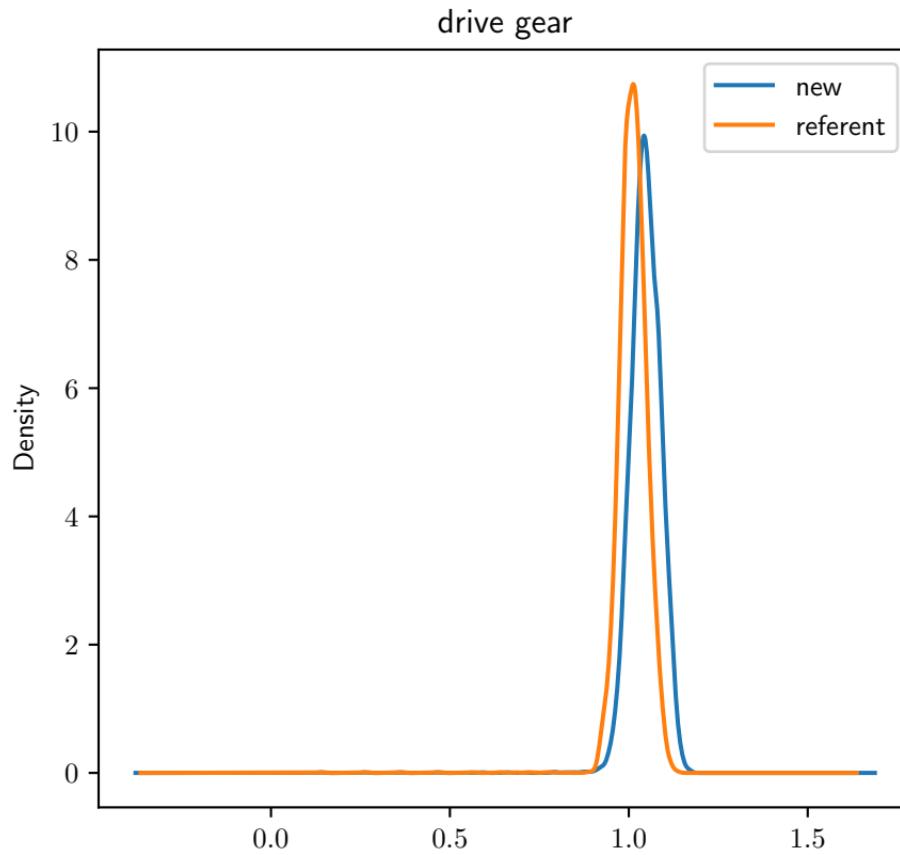
New data:from 2019-06-01 until 2019-07-11

Referent data: last 30 days

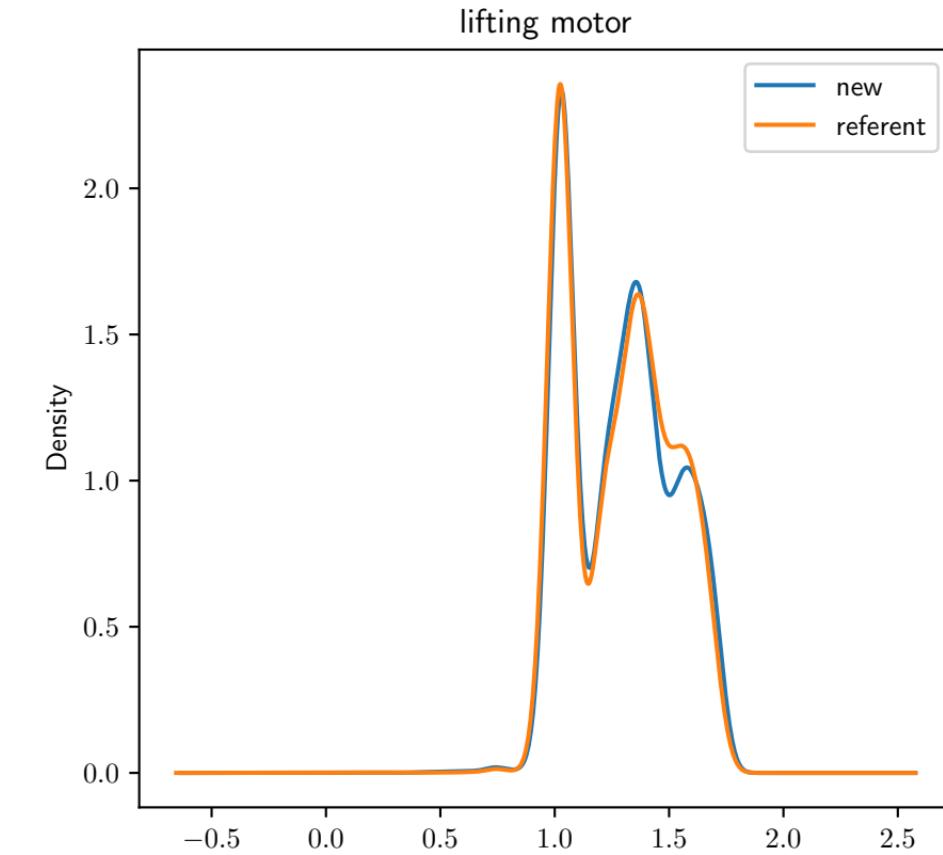
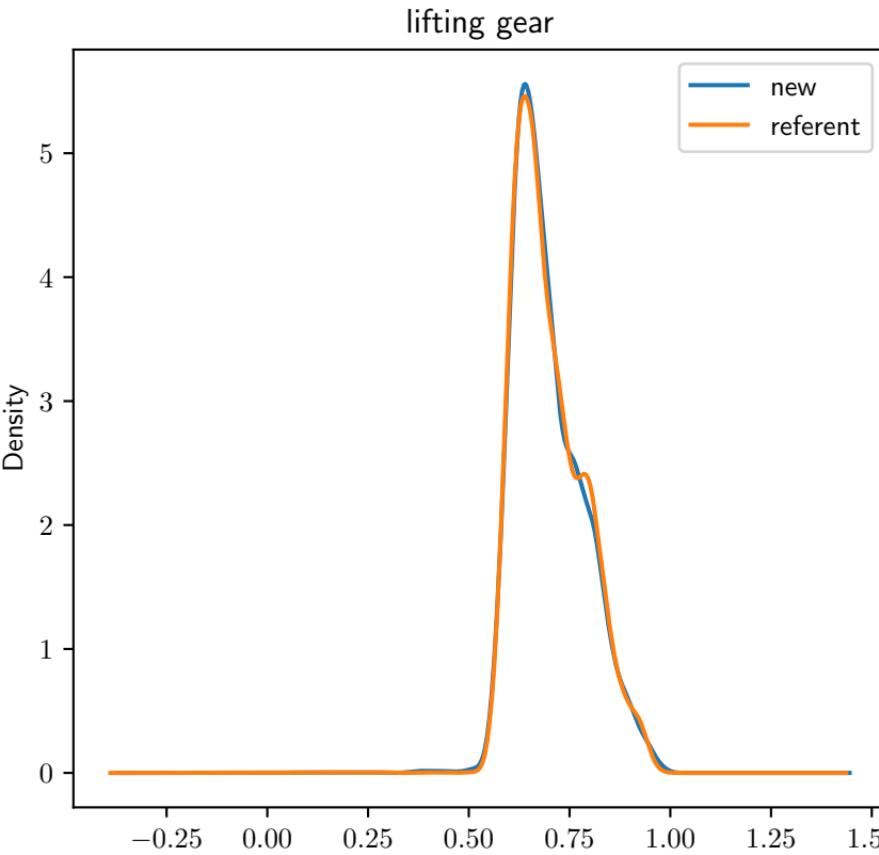
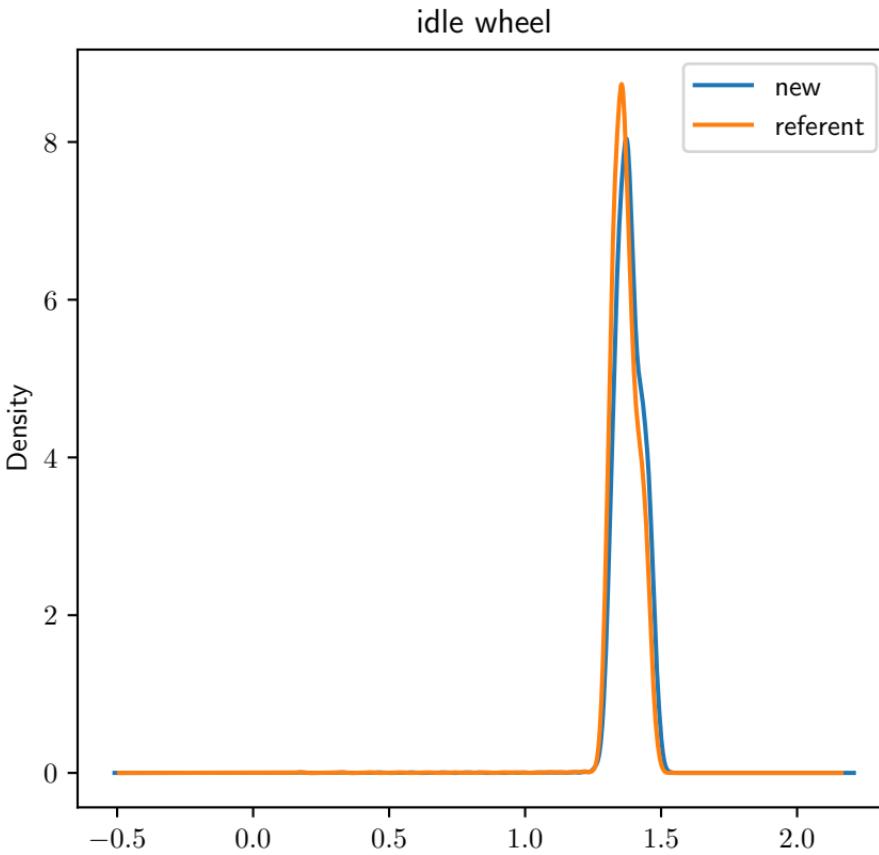
Velocity sensors

drive gear	drive motor	drive wheel	idle wheel	lifting gear	lifting motor
$\mu_{ref} = 1.01$ $\sigma_{ref} = 0.04$ $\sigma_{ref}^2 = 0.0$	$\mu_{ref} = 2.05$ $\sigma_{ref} = 0.09$ $\sigma_{ref}^2 = 0.01$	$\mu_{ref} = 2.56$ $\sigma_{ref} = 0.18$ $\sigma_{ref}^2 = 0.03$	$\mu_{ref} = 1.37$ $\sigma_{ref} = 0.06$ $\sigma_{ref}^2 = 0.0$	$\mu_{ref} = 0.7$ $\sigma_{ref} = 0.09$ $\sigma_{ref}^2 = 0.01$	$\mu_{ref} = 1.29$ $\sigma_{ref} = 0.23$ $\sigma_{ref}^2 = 0.05$
$\mu_{new} = 1.05$ $\sigma_{new} = 0.05$ $\sigma_{new}^2 = 0.0$	$\mu_{new} = 2.08$ $\sigma_{new} = 0.1$ $\sigma_{new}^2 = 0.01$	$\mu_{new} = 2.58$ $\sigma_{new} = 0.17$ $\sigma_{new}^2 = 0.03$	$\mu_{new} = 1.38$ $\sigma_{new} = 0.06$ $\sigma_{new}^2 = 0.0$	$\mu_{new} = 0.7$ $\sigma_{new} = 0.09$ $\sigma_{new}^2 = 0.01$	$\mu_{new} = 1.29$ $\sigma_{new} = 0.23$ $\sigma_{new}^2 = 0.05$
$good_{cnt}/all_{cnt}$ 5616 / 5663 = 99%	$good_{cnt}/all_{cnt}$ 5962 / 5999 = 99%	$good_{cnt}/all_{cnt}$ 6010 / 6022 = 100%	$good_{cnt}/all_{cnt}$ 5668 / 5683 = 100%	$good_{cnt}/all_{cnt}$ 7426 / 7460 = 100%	$good_{cnt}/all_{cnt}$ 7682 / 7690 = 100%
GOOD FIT	GOOD FIT	GOOD FIT	GOOD FIT	GOOD FIT	GOOD FIT

Distribution for drive sensors (velocity)



Distribution for other sensors (velocity)

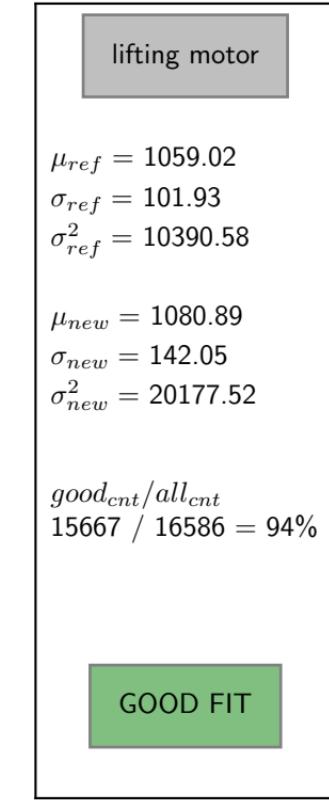
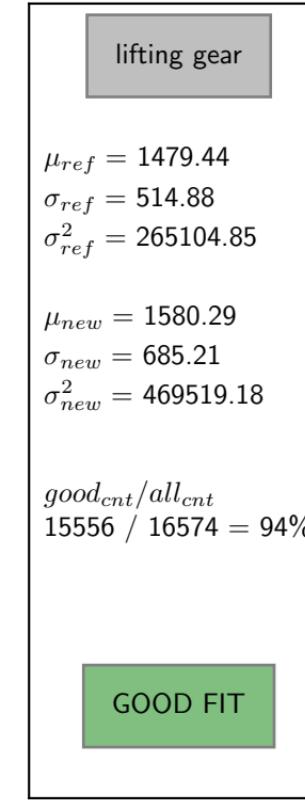
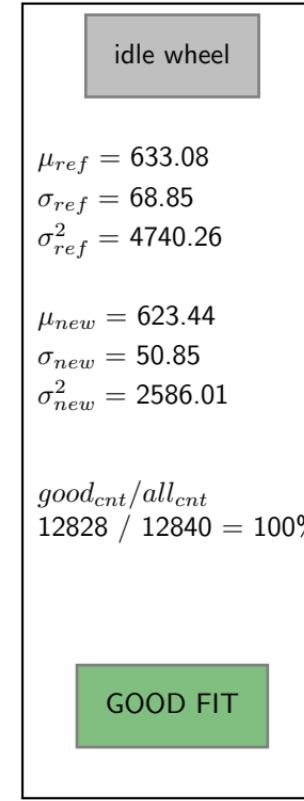
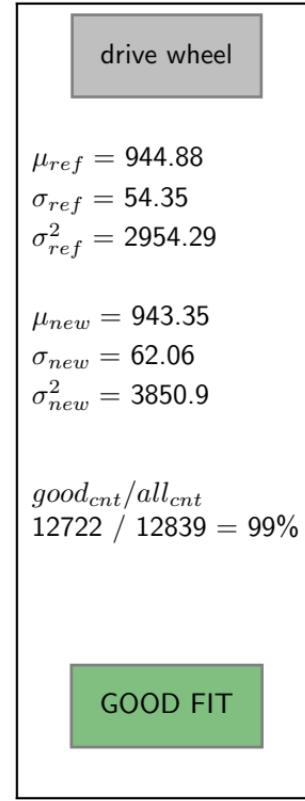
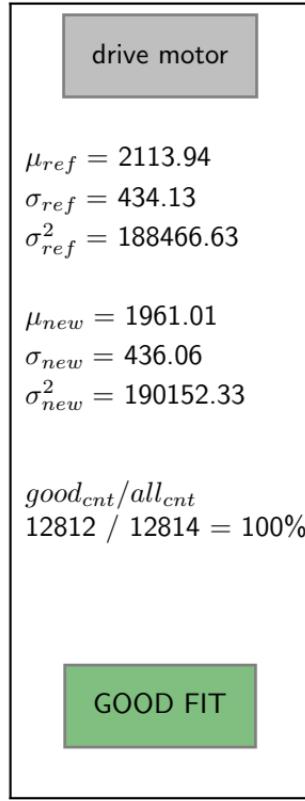
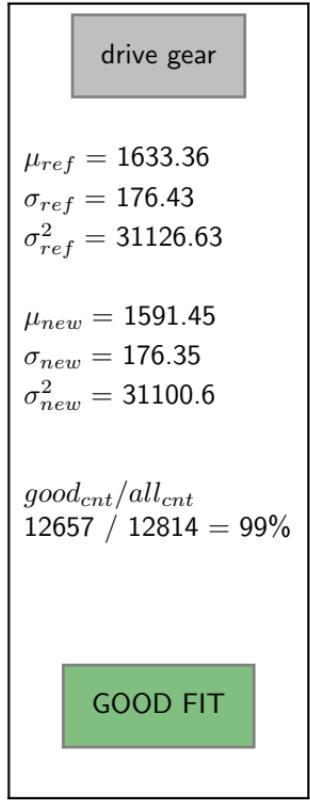


Compatibility check for acceleration sensors

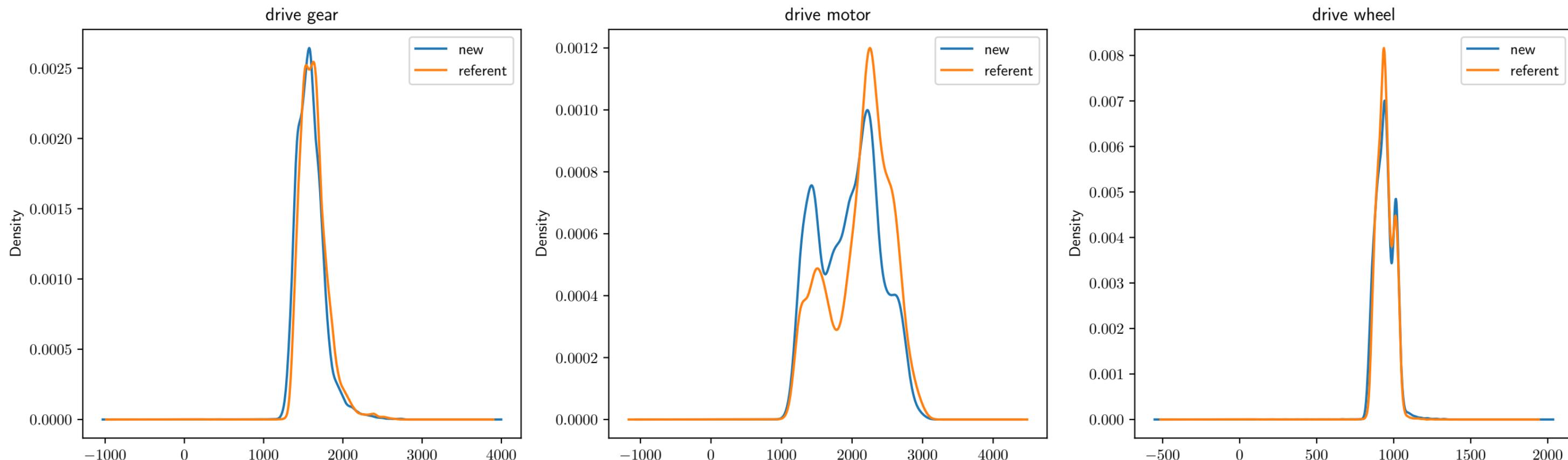
New data:from 2019-06-01 until 2019-07-11

Referent data: last 30 days

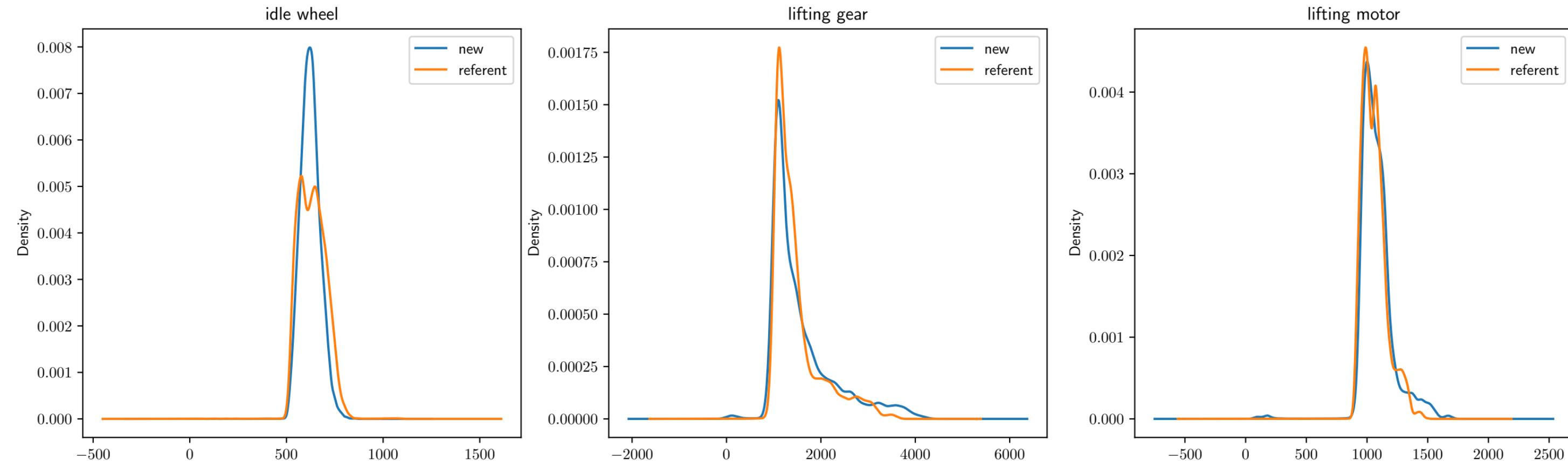
Acceleration sensors



Distribution for drive sensors (acceleration)



Distribution for other sensors (acceleration)



Compatibility check for velocity sensors

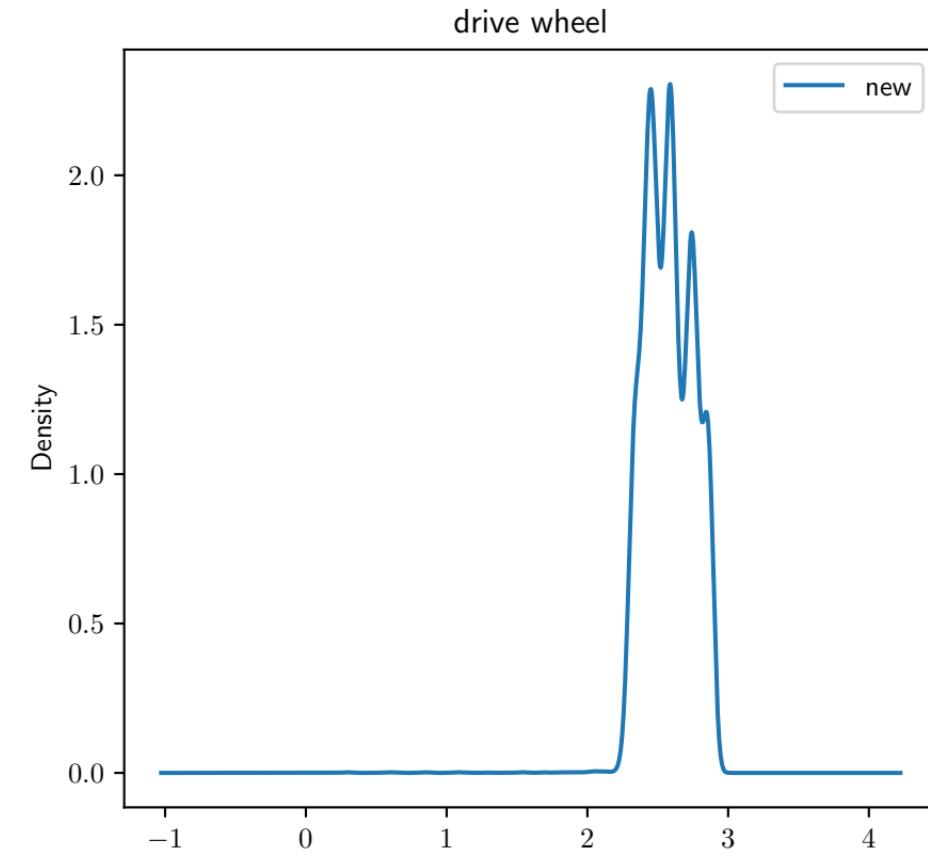
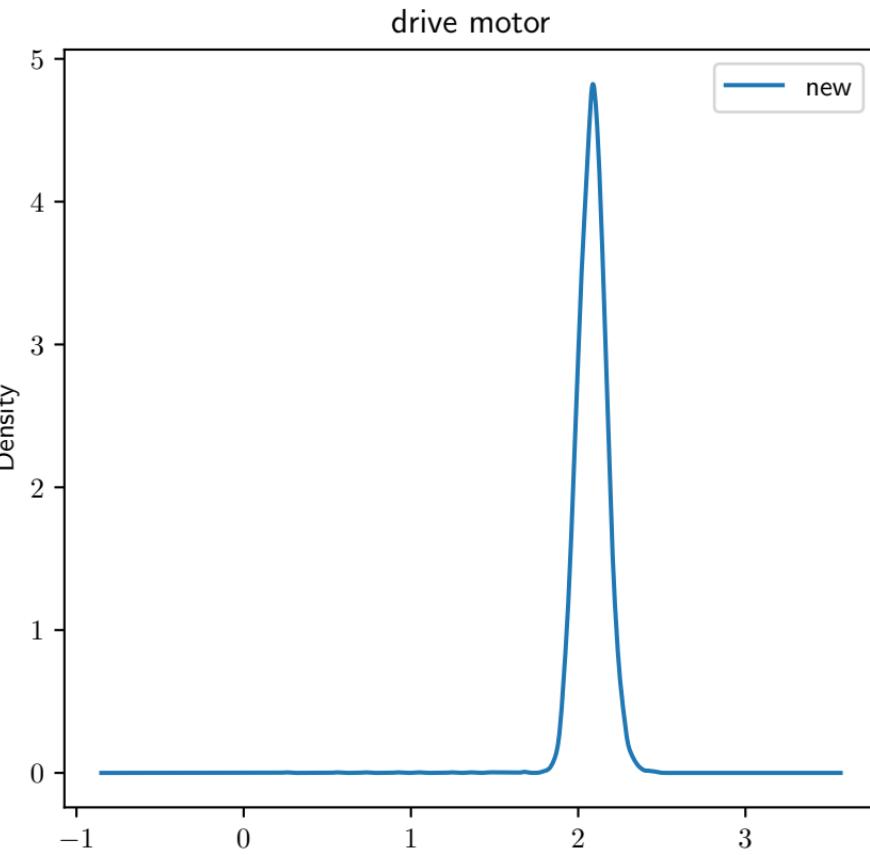
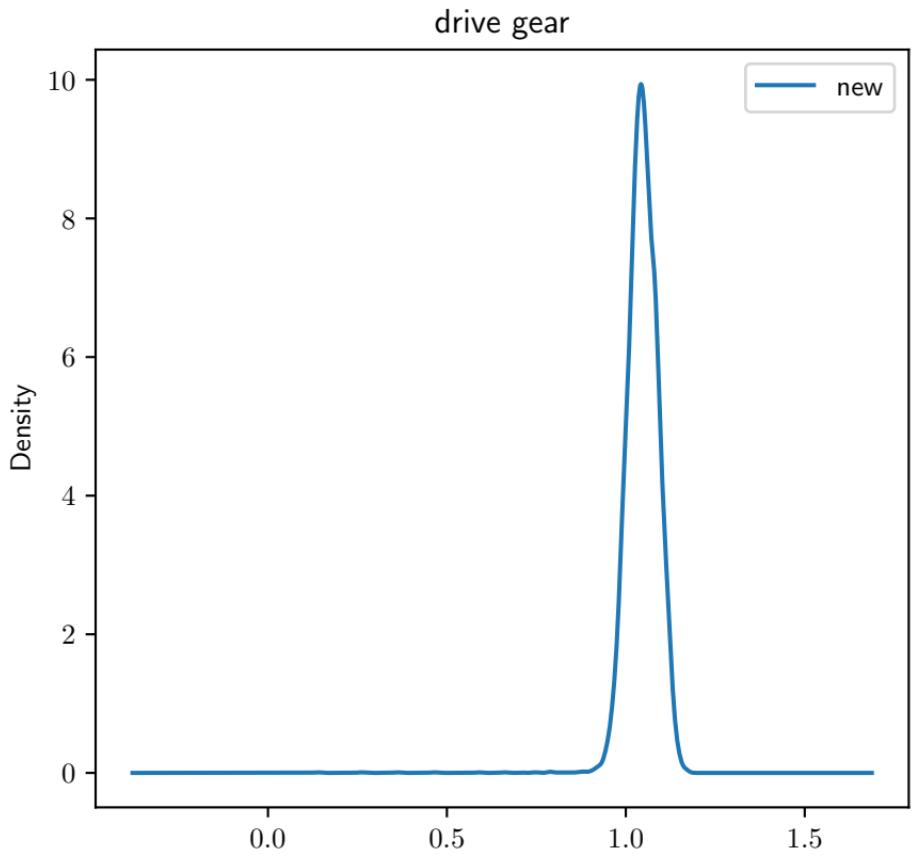
New data:from 2019-06-01 until 2019-07-11

Referent data: recommended distribution (from .config)

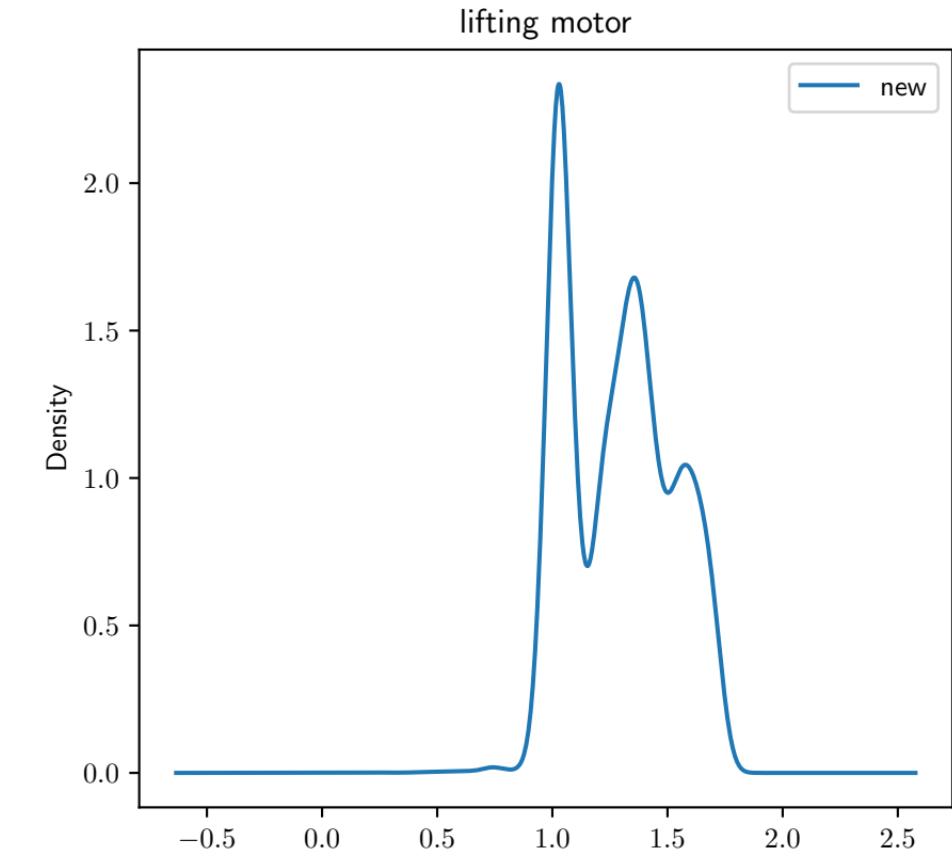
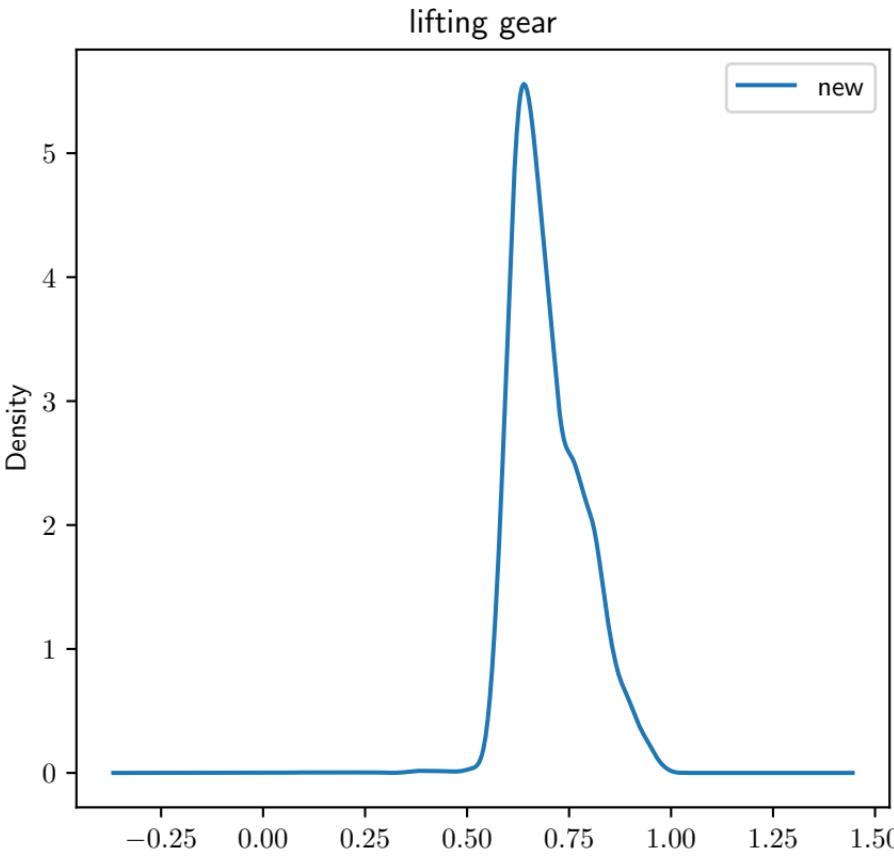
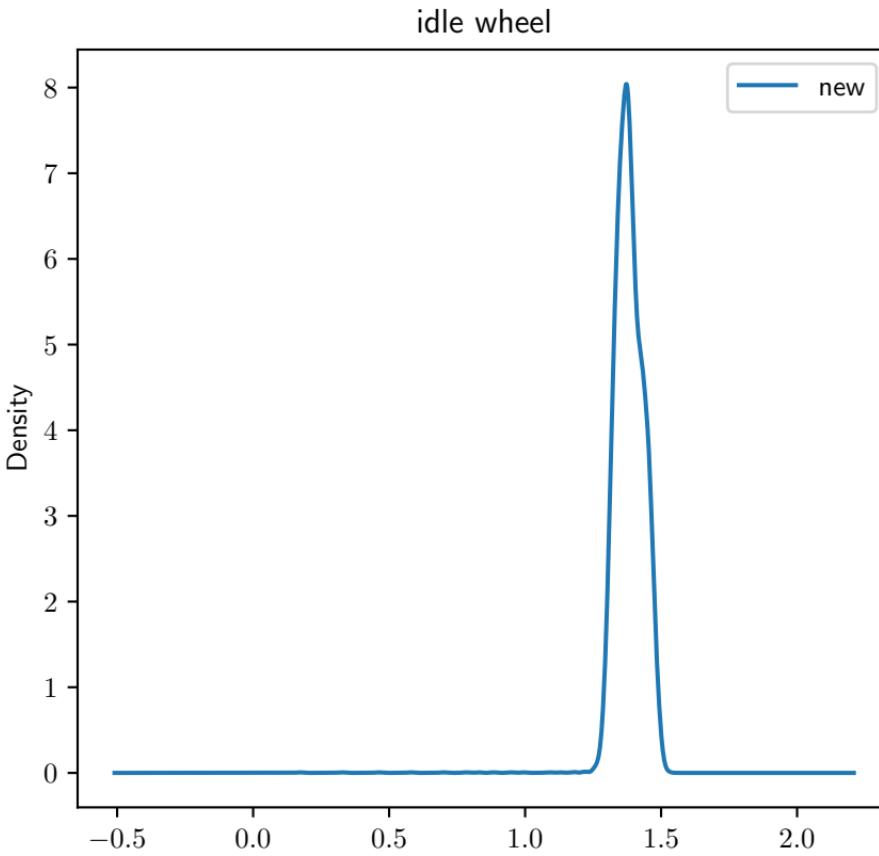
Velocity sensors

drive gear	drive motor	drive wheel	idle wheel	lifting gear	lifting motor
$\mu_{ref} = \text{NA}$ $\sigma_{ref} = \text{NA}$ $\sigma_{ref}^2 = \text{NA}$					
$\mu_{new} = 1.05$ $\sigma_{new} = 0.05$ $\sigma_{new}^2 = 0.0$	$\mu_{new} = 2.08$ $\sigma_{new} = 0.1$ $\sigma_{new}^2 = 0.01$	$\mu_{new} = 2.58$ $\sigma_{new} = 0.17$ $\sigma_{new}^2 = 0.03$	$\mu_{new} = 1.38$ $\sigma_{new} = 0.06$ $\sigma_{new}^2 = 0.0$	$\mu_{new} = 0.7$ $\sigma_{new} = 0.09$ $\sigma_{new}^2 = 0.01$	$\mu_{new} = 1.29$ $\sigma_{new} = 0.23$ $\sigma_{new}^2 = 0.05$
$good_{cnt}/all_{cnt}$ NA / NA = NA					
NO DATA					

Distribution for drive sensors (velocity)



Distribution for other sensors (velocity)



Compatibility check for acceleration sensors

New data:from 2019-06-01 until 2019-07-11

Referent data: recommended distribution (from .config)

Acceleration sensors

drive gear
$\mu_{ref} = \text{NA}$
$\sigma_{ref} = \text{NA}$
$\sigma_{ref}^2 = \text{NA}$
$\mu_{new} = 1591.45$
$\sigma_{new} = 176.35$
$\sigma_{new}^2 = 31100.6$
$good_{cnt}/all_{cnt}$ NA / NA = NA
NO DATA

drive motor
$\mu_{ref} = \text{NA}$
$\sigma_{ref} = \text{NA}$
$\sigma_{ref}^2 = \text{NA}$
$\mu_{new} = 1961.01$
$\sigma_{new} = 436.06$
$\sigma_{new}^2 = 190152.33$
$good_{cnt}/all_{cnt}$ NA / NA = NA
NO DATA

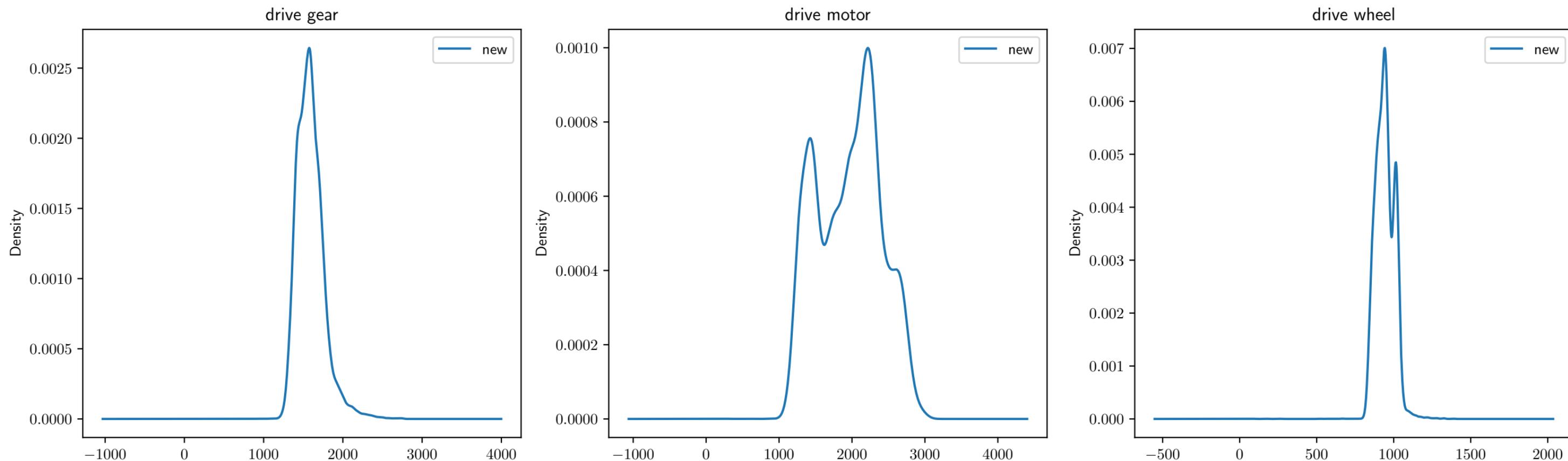
drive wheel
$\mu_{ref} = \text{NA}$
$\sigma_{ref} = \text{NA}$
$\sigma_{ref}^2 = \text{NA}$
$\mu_{new} = 943.35$
$\sigma_{new} = 62.06$
$\sigma_{new}^2 = 3850.9$
$good_{cnt}/all_{cnt}$ NA / NA = NA
NO DATA

idle wheel
$\mu_{ref} = \text{NA}$
$\sigma_{ref} = \text{NA}$
$\sigma_{ref}^2 = \text{NA}$
$\mu_{new} = 623.44$
$\sigma_{new} = 50.85$
$\sigma_{new}^2 = 2586.01$
$good_{cnt}/all_{cnt}$ NA / NA = NA
NO DATA

lifting gear
$\mu_{ref} = \text{NA}$
$\sigma_{ref} = \text{NA}$
$\sigma_{ref}^2 = \text{NA}$
$\mu_{new} = 1580.29$
$\sigma_{new} = 685.21$
$\sigma_{new}^2 = 469519.18$
$good_{cnt}/all_{cnt}$ NA / NA = NA
NO DATA

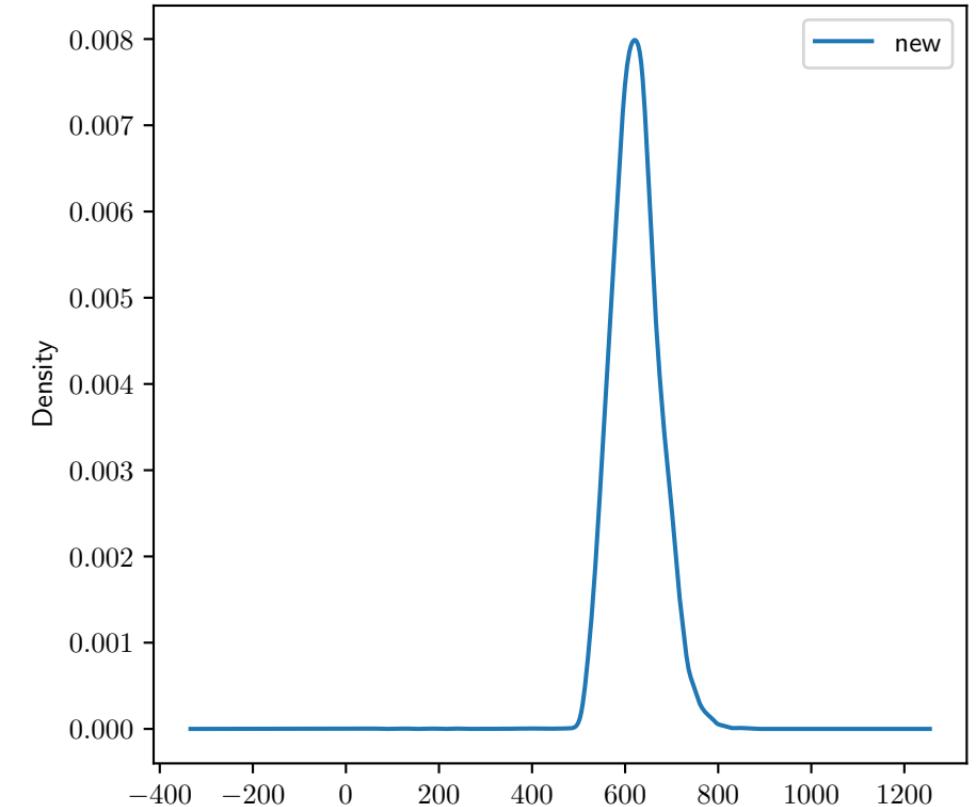
lifting motor
$\mu_{ref} = \text{NA}$
$\sigma_{ref} = \text{NA}$
$\sigma_{ref}^2 = \text{NA}$
$\mu_{new} = 1080.89$
$\sigma_{new} = 142.05$
$\sigma_{new}^2 = 20177.52$
$good_{cnt}/all_{cnt}$ NA / NA = NA
NO DATA

Distribution for drive sensors (acceleration)

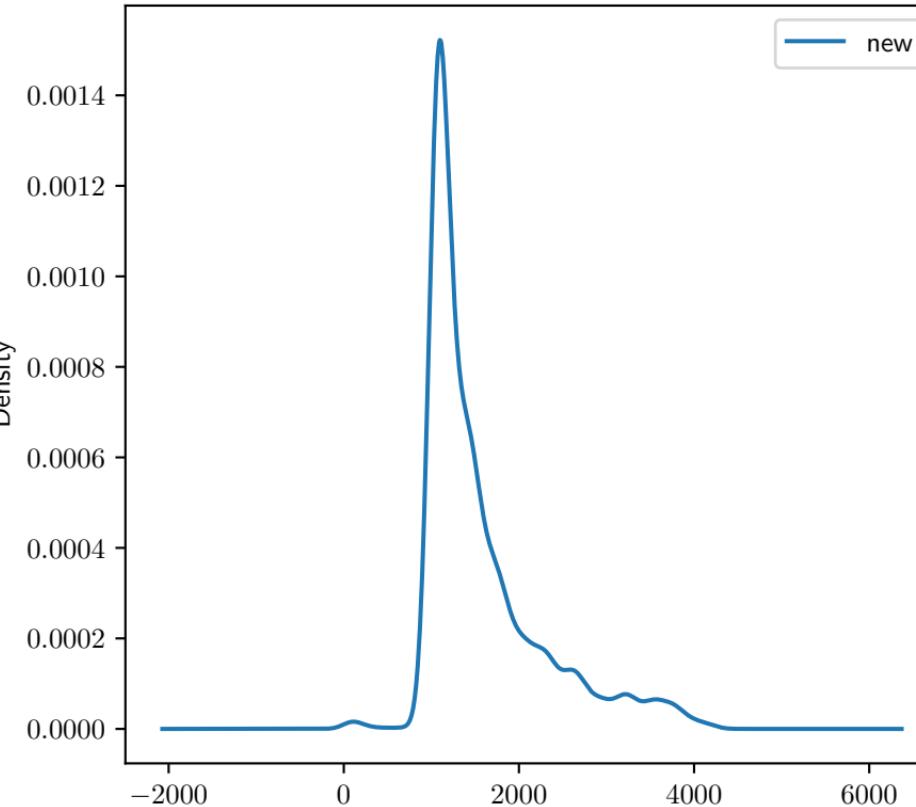


Distribution for other sensors (acceleration)

idle wheel



lifting gear



lifting motor

