VEHICLE TITLE FS ETR500 COACH

MASSES & INERTIAS

Number of bogies	2
Number of axles (per bogie)	2.
Body mass	34.23 Mg
Body roll inertia	54.63 Mgm ²
Body pitch inertia	1821.0 Mgm ²
v a	1760.0 Mgm ²
Body yaw inertia	1700.0 Mgm
	276 Ma
Bogie mass	2.76 Mg
Bogie roll inertia	2.034 Mgm^2
Bogie pitch inertia	2.504 Mgm^2
Bogie yaw inertia	$4.071~\mathrm{Mgm}^2$
	4
Wheelset mass	1.58 Mg
Wheelset roll and yaw inertia	$0.753~\mathrm{Mgm^2}$
DIMENSIONS	
Semi pivot spacing	9.5 m
Semi wheelbase	1.5 m
Wheel radius	0.44 m
Body centre of gravity height above rail level	1.5 m
Bogie centre of gravity height above rail level	0.68 m
bogic control of gravity height doove fair level	0.00 111
PRIMARY SUSPENSION	
NIORE RECORDED IN SERVINGER	
Lateral stiffness (per axle)	4.35 MN/m
	1.61 MN/m
Vertical stiffness (per axle)	
Yaw stiffness (per axle)	14.0 MNm/r
Lataral darman rata (nar ayla)	- MNs/m
Lateral damper rate (per axle)	0.015 MNs/m
Vertical damper rate (per axle)	
Vertical friction breakout (per axle)	- KN
Weight shows will level of leteral angines	0.44 m
Height above rail level of lateral springs	0.44 m
Lateral semi spacing of vertical springs	0.96 m
Height above rail level of lateral dampers	- m
Lateral semi spacing of vertical dampers	0.96 m
Lateral semi spacing of vertical friction	- m

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