

Front Axle Overload on Auto Haulers

Recent studies by Michelin's Customer Engineering Support have shown that Auto Haulers may sometimes exceed the designed load capacity of the front axle tires either across the axle or at one of the two axle ends. Improper positioning of the top front loaded vehicle or positioning of heavier than intended vehicles in the top front position contribute to overload conditions.

Michelin® 275/70R22.5 XZE®2+ and XZA2® Energy LRJ truck tires have a maximum single tire load of 6,940 lbs at 130 psi with a maximum speed rating of 75 mph⁽¹⁾. See Load and Inflation table below.⁽²⁾

Overloading the 275/70R22.5 LRJ tires (or any highway tire) and/or exceeding the speed rating of the tire is dangerous and may lead to tire failure.

LOAD AND INFLATION TABLE FOR 275/70R22.5 XZE®2+ AND XZA2® ENERGY LRJ ⁽²⁾

PSI		85	90	95	100	105	110	115	120	125	130	MAXIMUM LOAD AND PRESSURE ON SIDEWALL		
kPa		590	620	660	690	720	760	790	830	860	900			
LBS	SINGLE	9880	10340	10800	11250	11700	12140	12580	13020	13460	13880	6940 LBS at 130 PSI		
	DUAL	19420	20320	21220	22100	22980	23860	24720	25580			6395 LBS at 120 PSI		
KG	SINGLE	4500	4680	4920	5100	5280	5500	5680	5900	6080	6300	3150 KG at 900 kPa		
	DUAL	8840	9200	9640	10000	10360	10800	11160	11600			2900 KG at 830 kPa		

If an Auto Hauler cannot ensure that the front axle ends were loaded within the limit of the 275/70R22.5 LRJ, the tires should be assumed to have been overloaded, and must be removed and scrapped.

The recommended alternative fitment is the 295/60R22.5 XZA2® Energy LRJ tire MSPN 33215.

SPECIFICATIONS FOR 295/60R22.5 XZA2® ENERGY LRJ

Dimension	Load Range	MSPN	Loaded Radius		Overall Diameter		Overall Width		Approved Rim (Recommended rim used for measuring and testing)	Dual Spacing		RPM	Tread Depth	
			in.	mm.	in.	mm.	in.	mm.		in.	mm.		32nds	mm.
XZA2 ENERGY 295/60R22.5	J	33215	16.7	424	36.1	918	11.4	290	9.00	13.0	330	575	16	13

(1) Exceeding the legal speed limit is neither recommended nor endorsed.

(2) If used on wheels/rims with 120 psi cold ratings the maximum load/tire in single mount is limited to 6,510 lb/tire.

(Continue on back.)

LOAD AND INFLATION TABLE FOR 295/60R22.5 XZA2® ENERGY LRJ 9.00 x 22.5" WHEEL/RIM AT 65 MPH ⁽¹⁾ (2)

											MAXIMUM LOAD AND PRESSURE PER AXLE	MAXIMUM LOAD AND PRESSURE PER TIRE
PSI		85	90	95	100	105	110	115	120	125	130	130
kPa		590	620	660	690	720	760	790	830	860	900	900
LBS	SINGLE	10520	11010	11500	11980	12460	12930	13400	13860	14320	14780	7390
	DUAL	19300	20200	21100	21980	22860	23720	24580	25440	26280	27120	6780
KG	SINGLE	4780	4980	5220	5420	5600	5860	6040	6280	6460	6700	3350
	DUAL	8760	9120	9600	9960	10280	10760	11080	11520	11880	12300	3075

The maximum speed of this tire on a 9.00" wheel/rim may be increased to 75 mph by using the adjusted load and pressure table below.

LOAD AND INFLATION TABLE FOR 295/60R22.5 XZA2® ENERGY LRJ 9.00 x 22.5" WHEEL/RIM AT 75 MPH ⁽¹⁾ (3)

											MAXIMUM LOAD AND PRESSURE PER AXLE	MAXIMUM LOAD AND PRESSURE PER TIRE
PSI		85	90	95	100	105	110	115	120	125	130	130
kPa		590	620	660	690	720	760	790	830	860	900	900
LBS	SINGLE	10180	10660	11130	11590	12050	12510	12960	13420	13860	14300	7150
	DUAL	18800	19680	20540	21400	22260	23100	23940	24760	25580	26400	6600
KG	SINGLE	4640	4820	5080	5260	5440	5680	5860	6100	6260	6500	3250
	DUAL	8560	8920	9360	9720	10040	10480	10800	11240	11560	12000	3000

The 295/60R22.5 XZA2® Energy LRJ tire may also be mounted on an 8.25-inch wheel/rim by applying the further adjusted load and inflation table below. Note that most 8.25 x 22.5" wheel/rims are rated at 120 psi cold and the nominal load must not exceed the rating for this cold pressure.

LOAD AND INFLATION TABLE FOR 295/60R22.5 XZA2® ENERGY LRJ 8.25 x 22.5" WHEEL/RIM AT 75 MPH ⁽¹⁾ (4)

											MAXIMUM LOAD AND PRESSURE PER AXLE	MAXIMUM LOAD AND PRESSURE PER TIRE
PSI		75	80	85	90	95	100	105	110	115	120	120
kPa		520	550	590	620	660	690	720	760	790	830	830
LBS	SINGLE	9030	9350	9850	10250	10710	11040	11420	11680	12170	12350	6175
	DUAL	16980	17640	17920	18660	19760	20100	20780	21420	22140	22700	5675
KG	SINGLE	4100	4240	4460	4660	4860	5000	5180	5300	5520	5600	2800
	DUAL	7720	8000	8120	8480	8960	9120	9440	9720	10040	10300	2575

- (1) Exceeding the legal speed limit is neither recommended nor endorsed.
- (2) Matches maximum load and pressure indicated on tire sidewall
- (3) Lower than maximum load indicated on the tire sidewall.
- (4) Lower than maximum load and pressure indicated on the tire sidewall.

Load and inflation industry standards are in a constant state of change. Michelin continually updates its product information to reflect these changes. Therefore, printed material may not reflect the current load and inflation information.

NOTE: The actual load and inflation pressure used must not exceed the wheel/rim manufacturer's maximum conditions. Never exceed a wheel/rim manufacturer's limits without permission of the component manufacturer.

Single configuration = 2 tires per axle. Dual configuration = 4 tires per axle. Loads are indicated per axle.

Always refer to the Michelin® Truck Tire Data Book (MWL40731) and Michelin® Truck Tire Service Manual (MWL40732) for proper tire selection, inflation and maintenance.

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