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ASSESSMENT OF THE TECHNICAL CONDITION OF THE WEIGHT CHECKING WAGON TYPE 640-VPV-271

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Abstract

Objective. When carrying out strength calculations of the metal structure of a weighing wagon, it is necessary to take the wall thickness into account, taking into account its reduction by the value of the average wear value. Thus, it is necessary to subtract the average amount of wear from the value of the size of the thickness of the sheets of elements. In this way, it will be possible to determine whether the design of the weighing wagon with existing wear will withstand the loads required by the standards.

Methods. The study was conducted using two different methods.

Visual method. By examining the analysis of the technical condition of the metal structure of the scales, the faults that could affect their service life were identified. Experimental method. To compare them with the normative values and to take them into account when conducting strength studies, the values of the magnitude of the impact on the elements of the metal structure of the scales were determined.

Results. Thus, when calculating the metal structure of a weighing car, the wall thickness be taken taking into account its decrease by the average wear value to determine whether the strength of the wagon structure complies with the required standards.

Conclusion. When carrying out strength calculations of the metal structure of a weighing wagon, it is necessary to take the wall thickness into account, taking into account its reduction by the value of the average wear value. Thus, it is necessary to subtract the average amount of wear from the value of the size of the thickness of the sheets of elements. In this way, it will be possible to determine whether the design of the weighing wagon with existing wear will withstand the loads required by the standards.

Keywords: railway, six-axle semi-wagon, freight wagon, longitudinal beam, pivot beam, end beam.

Introduction. One of the conditions for the gradual development of railway transport in the Republic of Uzbekistan is to replenish the fleet of domestic wagons with modern wagons manufactured in accordance with world standards, to extend their service life in order to optimize the operation of existing wagons [1-3].

Wagons for various purposes make up the wagon fleet, which is one of the most important parts of the rolling stock of the railway. Wagons of various types are used to transport goods and passengers.



For the implementation of the transportation process, UTY JSC has a fleet of freight wagons in the amount of 20.28 thousand freight wagons, including insulated wagons. The fleet of freight wagons includes universal and specialized wagons.

The volume of work on the dispatch (loading) of goods in tons is determined on the basis of applications from shippers [4-6]. To date, accurate measurement of the mass of rolling stock using railway scales located at the stations is a very important task. In particular, inaccurate measurement of the weight of the rolling stock by scales adversely affects the following important aspects of the organization of the safety of cargo transportation: 1-travel documents; 2-factors of the economic component; 3-control of the load falling on the rails from each wheel pair; 4-intensity of wear of rails, etc.

To date, the country's railways have weight checking wagons designed to periodically check the accuracy of measurements of railway scales located at stations.

These wagons, according to the instructions, are checked 4 times a year with the wagons being checked, designed to check the scales located at the stations. After successfully passing the test by the weighing wagon, a special certificate is assigned to the railway scales [7].

The technical condition of the metal structure of the wagon of the type 640-VPV-271 of Bukhara regional railway junction, designed to check the railway scales, which perform such an important function, was analyzed.

In order to compare them with the normative parameters of the analysis and to take them into account when conducting strength studies, the values of the magnitude of the impact on the elements of the metal structure of the scales were determined.

The weighing wagon model 640-VPV-271, located at Bukhara regional railway junction, was built in 1965. The date of the last depot repair was April 28, 2013. The weight of the wagon is 123 tons.

Previously, before determining the wear values of body elements of weighing wagons, schemes of measurement sites were drawn up, shown in Figures (1-4).

A survey of the technical condition of the main bearing elements and structural parameters of the body of this weighing wagon was carried out [8-9]. The measurement results are shown in graphs (2–5).

Methods. The studies were carried out using visual and experimental methods.

Based on the results of wear thickness measurements h^i , the value of the average thickness h^i_{cp} is calculated taking into account the tolerance " δ =0.2 mm" for cleaning, which is determined by the formula:

$$h_{cp}^{i} = \frac{1}{n} \sum_{i}^{n} h^{i} - 0.2$$

where n is the number of measurements.

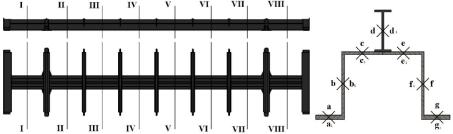


Figure 1. Scheme of measuring the wear thickness of sheets on the center beam of the frame of the weighing wagon 640-VPV-271



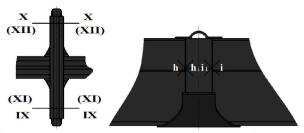


Figure 2. Scheme of measuring the wear thickness of sheets on the pivot beam of the frame of the weighing wagon 640-VPV-271

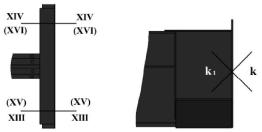


Figure 3. Scheme of measuring the wear thickness of sheets on the end beam of the frame of the weighing wagon 640-VPV-271

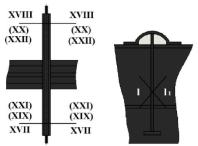


Figure 4. Scheme of measuring the wear thickness of sheets on the longitudinal beam of the frame of the weighing wagon 640-VPV-271

Table 1

The results of measuring the thickness of wear sheets on the center beam of the frame of the weighing car

		Mea	suremo	ent val	ues of	the we	ear thic	kness	es of t	he eler	nents	of the	pivot b	eam o	f the
Nº	Section						b	ody fra	me, m	m					
		а	a ₁	b	b ₁	С	C ₁	d	d₁	е	e ₁	f	f ₁	g	g ₁
1.	I-I	0,61	0,56	0,63	0,26	0,6	0,65	0,32	0,33	0,56	0,63	0,52	0,43	0,38	0,34
2.	11-11	0,58	0,61	0,57	0,43	0,38	0,47	0,28	0,4	0,45	0,66	0,48	0,52	0,43	0,38
3.	111-111	0,53	0,49	0,63	0,37	0,57	0,63	0,61	0,37	0,58	0,42	0,51	0,41	0,36	0,42
4.	IV-IV	0,62	0,55	0,59	0,68	0,54	0,26	0,33	0,67	0,49	0,39	0,43	0,37	0,71	0,35
5.	V-V	0,46	0,44	0,61	0,35	0,55	0,51	0,48	0,26	0,57	0,67	0,45	0,47	0,36	0,29
6.	VI-VI	0,38	0,57	0,59	0,23	0,63	0,38	0,53	0,35	0,46	0,65	0,34	0,47	0,42	0,62
7.	VII-VII	0,64	0,55	0,53	0,58	0,52	0,68	0,36	0,32	0,62	0,63	0,48	0,36	0,41	0,54
8.	VIII-VIII	0,47	0,42	0,57	0,29	0,48	0,65	0,41	0,47	0,52	0,59	0,42	0,52	0,37	0,37
	h ⁱ ср							0,	77						



Table 2

<u>The results of measuring the thickness of wear sheets on the pivot beam of the frame of the weighing car</u>

Nº	Section		ent values of the we of the body frame,		he elements of the
		h	h_1	i	i ₁
1.	IX-IX	0,32	0,23	0,34	0,32
2.	X-X	0,37	0,25	0,33	0,35
3.	XI-XI	0,42	0,22	0,36	0,27
4.	XII-XII	0,34	0,27	0,35	0,31
$m{h}^i{}_{cp}$		0,43			

Table 3

<u>The results of measuring the thickness of the sheets on the end beam of the frame of the weighing car</u>

Nº	Section		icknesses of the elements of the end body frame, mm
		k	\mathbf{k}_1
1.	XIII-XIII	0,65	0,58
2.	XIV-XIV	0,58	0,45
3.	XV-XV	0,54	0,58
4.	XVI-XVI	0,66	0,51
	$m{h}^i{}_{cp}$	0),94

Table 4

<u>The results of measuring the thickness of wear sheets on the longitudinal beam</u>

<u>of the frame of the weighing car</u>

Nº	Сечение	•	зносов элементов продольной балки кузова, мм
		I T	I ₁
1.	XVII-XVII	0,32	0,82
2.	XVIII-XVIII	0,74	0,56
3.	XIX-XIX	0,36	0,65
4.	XX-XX	0,28	0,43
5.	XXI-XXI	0,35	0,37
6.	XXII-XXII	0,63	0,43
	$m{h}^i{}_{cp}$		0,79

Results and Discussion. From the above obtained data of the five examined wagons, we determine the average wear of the sheets for the elements of the metal structures of the weighing wagon according to the formula [10]:

$$h_{cp} = \frac{1}{n} \sum_{i}^{n} h_{cp}^{i}.$$

The results of calculations of the average wear of sheets are summarized in table 5.

Table

<u>Results of average wear thicknesses according to the elements of the weighing wagon 640-VPV-271</u>

Nº	Wagon model	Center beam	Pivot beam	End beam	Longitudinal beam
1	640-VPV-271	0,77	0,43	0,94	0,79



Conclusion. When carrying out strength calculations of the metal structure of a weighing wagon, it is necessary to take the wall thickness into account, taking into account its reduction by the value of the average wear value. Thus, it is necessary to subtract the average amount of wear

from the value of the size of the thickness of the sheets of elements. In this way, it will be possible to determine whether the design of the weighing wagon with existing wear will withstand the loads required by the standards.

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