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Inspection Report

No:HQW19040078

product name : Hand-taken Radix Puerariae
Model/Specification: 2t×3m Inspected
Unit:Beijing Shengying Crane Machinery Co., Ltd.
kind of inspection : Commissioned Inspection

Hebei Provincial Light Crane Tools Product Quality Supervision and Inspection Center



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Product name	Hand-operated hoist	Ts	2t×3m
		Trademark	Shengying
Client	Beijing Shengying Crane Machinery Co., Ltd.	Nature of the Test	Commissioned Inspection
Production unit	Beijing Shengying Crane Machinery Co., Ltd.	Production Date or Batch Number	2019. 3. 20
Tested Unit	Beijing Shengying Crane Machinery Co., Ltd.	Address	Donglü Village, Qingyuan District, Baoding City
Sample size	2 units	Sample Grade	Qualified Product
Sampling basic number	---	Sample Sender, Date	Zhang Lichao, April 29, 2019
Sampling Site	---	Pattern Owner, Date	Sun Kai 2019. 4. 29
Sample Status	No visible defects in appearance	Examination date	2019. 4. 29
Ambient temperature	22℃	Relative humidity	55%
Inspecting item	Visual inspection; no-load performance test; light-load performance test; dynamic load performance test; braking performance test; hand pulling force measurement; continuous operation performance test; overall positioning strength test; overall strength test; minimum distance between two hooks and lifting height; measurement of paint film adhesion.		
Inspection standard	JB/T 7334-2016 Hand-operated Hoist		
Inspect the conclusion	The sample was tested in accordance with JB/T 7334-2016 for hand-operated hoists, and all test items met the requirements, thus qualifying as a compliant product. (Detection-specific Seal) Issuance date: April 27, 2019		
Remarks			

ratify :


examine and
verify :


Main Inspector: 孙凯

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Order number	Checkout Project	Standard Requirements	Result	Single Judge																																					
1	Visually inspect	The visual inspection should include verifying whether the specifications and/or condition of all critical components meet the requirements, such as —Hand-operated chain, chain guide and chain stop mechanism, brake; Equipped with all protective devices, including a protective cover and tail ring restraint device; 1. The hook and its connecting components; A set of heavy chains, chain wheels, cruise lines, and their fasteners:	Visual inspection confirms that all components meet the specified specifications and/or required conditions.	Qualified																																					
2	No-load performance	When the hand-operated hoist is in no-load condition, pulling the chain should ensure all mechanisms operate smoothly without any jamming or intermittent loosening/tightening.	After testing, all components operate smoothly without any jamming or intermittent loosening/tightening phenomena.	Qualified																																					
3	Light-load performance	When conducting performance tests for light-load operation of hand-operated hoists, a test load equal to 3% of the rated lifting capacity shall be applied (the rounded test loads are shown in Table 2). The hoist shall be raised and lowered once each according to the lifting heights specified in Table 4; the load shall move smoothly during both operations, and the brake system must function reliably.	After testing according to standard requirements, no load slippage was observed, and the braking performance meets the specified requirements.	Qualified																																					
4	Dynamic Load Performance	When conducting dynamic load performance tests on hand-operated hoists, the test load shall be set at 1.25 times the rated lifting capacity (the rounded test load values are shown in Table 3), and the hoist shall be raised and lowered once each according to the lifting heights specified in Table 4; all requirements below must be met: The main lifting chain engages properly with the lifting sprocket and carrier sprocket, while the hand-operated chain meshes securely with the hand sprocket. The gear pair operates smoothly without any abnormalities. During the lifting and lowering processes, the hoisting chain shows no twisting. During the lifting process, the hand force should not change significantly. 1. The brake operates reliably, with no load slippage occurring.	After testing in accordance with standard requirements, the following specifications are met: 1. The lifting chain engages properly with the lifting sprocket and the traveling sprocket; the hand-operated chain engages properly with the hand sprocket. 2、The gear set operates smoothly without any abnormal phenomena; 3. No torsion is observed in the lifting chain during raising and lowering operations; 4. There is no significant variation in hand force during lifting operations; 5. The brake functions reliably with no load slippage occurring.	Qualified																																					
5	Braking ability test	The hand-operated hoist shall be tested under the test loads specified in Table 5. During testing, the brake must function properly and provide adequate braking performance. Table 5 <table><tr><td>G. (t)</td><td>0.5</td><td>1</td><td>2</td><td>3.2</td><td>5</td><td>10</td></tr><tr><td>0.256</td><td>1.25</td><td>2.5</td><td>5</td><td>8</td><td>12.5</td><td>25</td></tr><tr><td>Test</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> Load <table><tr><td>kv</td><td>16.</td><td>5</td><td>10</td><td>20</td><td>32</td><td>50</td><td>100</td></tr><tr><td></td><td>1.256</td><td>6.3</td><td>12.5</td><td>25</td><td>40</td><td>63</td><td>125</td></tr></table> G. Representative rated lifting capacity	G. (t)	0.5	1	2	3.2	5	10	0.256	1.25	2.5	5	8	12.5	25	Test							kv	16.	5	10	20	32	50	100		1.256	6.3	12.5	25	40	63	125	Apply the three specified test loads of 5 kN, 20 kN, and 25 kN in sequence as required by standards; perform each test sequentially with a lifting height of 150 mm. Then lower the load until the hoisting wheel completes one full rotation, allow it to rest for 1 hour, and verify that the load does not descend spontaneously and that the braking system is reliable.	Qualified
G. (t)	0.5	1	2	3.2	5	10																																			
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6	Hand grip strength measurement	The grasping force of the hand-held Hu Lu device shall <u>comply with the specifications in Table 6. Table 6</u> <u>6. (t) 0.5 1 2 3.2 5 10</u> <u>rh(S) 200*550 250*550 300*550</u> <u>G. Representing the rated lifting capacity; h represents the hand pulling force.</u> This experiment employed the weight drop method for determination. When using the heavy weight method for determination, first apply it to the hand hoist under test. Apply the rated lifting load to the suspension system and raise it to the test elevation specified in Table 4, then adjust the position of the hoisting sprocket. Position it at the point where the lifting chain applies maximum torque, then manually tighten the hand chain on the lowering side.	Measured: Fa = 280 N; Fn² = 310 N; Calculation: Fn=F+Fn =(280+310) /2 =295N	Qualified																	
7	Continuation Movement Function Trial	The hand-operated hoist shall be subjected to a load equal to 1.1 times its rated lifting capacity and performed 1,500 consecutive lifts and descents at the test lifting heights specified in Table 4 (each cycle consisting of one lift, stop, descent, and stop). After testing, no abnormal phenomena should be observed in any part of the hand-operated hoist, and it must comply with the requirements of 4.2.3 and 4.2.4.	Apply the standard test load of 22 kN; perform continuous lifting operations at a height of 150 mm for 1,500 cycles. No abnormalities were observed in any component of the hand winch after testing, and it meets all requirements for dynamic load performance and braking performance.	Qualified																	
8	Total limit strength of the entire machine	By releasing the brake, the tail ring restraint device is activated; the hand hoist must reliably withstand a static tension load of 2.5 times its rated lifting capacity without any damage.	According to standard requirements, a test load of 50 kN was applied to the hand-cranked hoist, and it reliably supported the load without any damage.	Qualified																	
9	Overall unit Intensity Trial	The hand-operated hoist must reliably withstand a static tensile load equal to four times its rated lifting capacity and maintain this condition for 10 minutes.	According to standard requirements, the hand-operated hoist was slowly loaded with a test load of 80 kN and maintained for 10 minutes; no damage was observed after the test.	Qualified																	
10	The minimum distance between the two hooks and the lifting height	The minimum distance between the two hooks shall comply with the specifications in Table 1. <table><tr><th>Rated load weight Gn(1)</th><th>Standard lifting height H (m)</th><th>Minimum distance between the two hooks Hmin (mm)</th></tr><tr><td>0.5</td><td rowspan="3">2.5</td><td>≤330</td></tr><tr><td>1</td><td>≤360</td></tr><tr><td>2</td><td>≤500</td></tr><tr><td>3.2</td><td rowspan="3">3</td><td>≤580</td></tr><tr><td>5</td><td>≤700</td></tr><tr><td>10</td><td>≤950</td></tr></table> The lifting height of a hand-operated hoist shall not be less than the specified value and should not exceed 12 m. The specified lifting height for this hand-operated葫芦 is 3 m.	Rated load weight Gn(1)	Standard lifting height H (m)	Minimum distance between the two hooks Hmin (mm)	0.5	2.5	≤330	1	≤360	2	≤500	3.2	3	≤580	5	≤700	10	≤950	The measured minimum distance between the two hooks is Hmin = 450 mm. The measured maximum distance between the two hooks is Hmx = 3470 mm. Count : H=Hmax-Hmin =3470-450 =3020mm	Qualified
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11	Measurement of film adhesion	4.4.1 All exposed components of the hand-operated hoist shall be free from defects such as cracks, scratches, burrs, or other imperfections that may affect its appearance or performance. 4.4.2 Before leaving the factory, hand chain hoists shall undergo surface treatment and painting, with the coating being uniform and exhibiting consistent coloration. The adhesion of the paint film shall meet or exceed the Grade 1 quality requirement specified in GB/T 9286. Grade 1 quality requirement: There is slight coating detachment at the intersection of incisions, but the affected cross-cut area should not significantly exceed 5%.	The exposed components of the hand-operated hoist shall be free from cracks, scars, burrs, or other defects that could affect its appearance or functionality. The surface of the hand-operated hoist shall be properly treated and coated with a uniform coating of consistent color, where the paint film adhesion meets the Grade 1 quality requirements specified in GB/T 9286.	Qualified

finish