
LEITNER-POMA OF AMERICA, INC.

█ Gondola Hanger Test

Area: █ Mountain, New York

Lift: █

Year Built: 1999

In 2024 █ replaced their 1999 CWA gondola cabins with new Sigma cabins. This modification required new hangers to be compatible with the new cabins.

After the Kicking Horse incident LPOA contacted █ to see if they had any of the old US4076601 hangers left. We were able to obtain 3 hangers.

LPOA Quality Control department performed the following tests as requested by Service and Engineering departments. The tests were conducted in April 2025

- All three hanger were power washed and the Magnetic Particle (MP) and visual inspection was performed per the LPOA NDT procedure dated 1/9/06- Results No Indications. Note: No serial numbers stamped on the hanger, so we stamped SN25D01, SN25D02 and SN25D03 for our tracking and documentation for this test and review.



The hanger was then cut into sections and the lower bend was cut in half along the primary axis. The wall thickness was checked and found to be within tolerance.



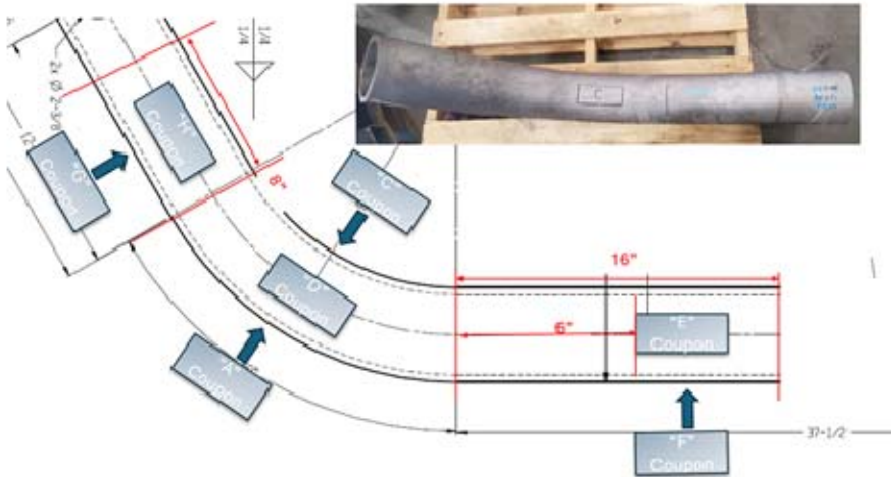
The cut surface was polished and inspected with a 10x loop.

No indications were found.

The cut surface was tested with a liquid dye penetrant test.

No indications where found.

LPOA then sent a bent section of a hanger to Accurate Metals Testing and requested them to perform a Charpy test at -20°C on samples obtained at the following locations.



CVN "F"

ID	Joules	% SHEAR	LAT. EXP.	REQUIREMENTS
16	47.0	40	.044"	Testing at -20° C
17	14.0	20	.015"	ACTUAL TEMP. -20.5 °C
18	9.0	10	.010"	Type A, SIZE 10 mm x 7.5 mm
AVE	23.3(31)			LONGITUDINAL

CVN "G"

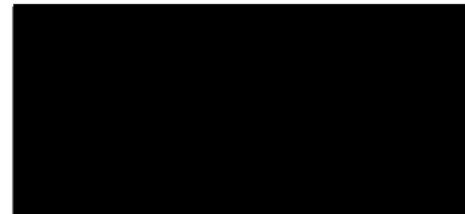
ID	Joules	% SHEAR	LAT. EXP.	REQUIREMENTS
19	104.0	100	.086"	Testing at -20° C
20	100.0	100	.089"	ACTUAL TEMP. -20.3 °C
21	28.0	30	.026"	Type A, SIZE 10 mm x 7.5 mm
AVE	77.3(103)			LONGITUDINAL

CVN "H"

ID	Joules	% SHEAR	LAT. EXP.	REQUIREMENTS
22	145.0	100	.102"	Testing at -20° C
23	16.0	20	.017"	ACTUAL TEMP. -20.1 °C
24	16.0	20	.017"	Type A, SIZE 10 mm x 7.5 mm
AVE	59.0(79)			LONGITUDINAL

(#) Approximate conversion to full size

[X] Information Only



General Manager

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A second hanger that we had previously sectioned was also tested at the following locations.

CVN#1 and CVN#2



CVN#3 and CVN#5



CVN#4 and CVN#6



CVN#7 and CVN#8



CVN#9 and CVN#10



CVN#11 and CVN#12





Leitner-Poma of America

Lab No. 2504-36

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CVN # 7

ID	Joules	% SHEAR	LAT. EXP.	REQUIREMENTS
19	9.0	20	.011"	Testing at -20° C
20	8.0	20	.009"	ACTUAL TEMP. -20.6 °C
21	16.0	20	.017"	Type A, SIZE 10 mm x 7.5 mm
AVE	11.0(15)			LONGITUDINAL

CVN # 8

ID	Joules	% SHEAR	LAT. EXP.	REQUIREMENTS
22	8.0	20	.010"	Testing at -20° C
23	9.0	20	.011"	ACTUAL TEMP. -20.3 °C
24	22.0	20	.024"	Type A, SIZE 10 mm x 7.5 mm
AVE	13.0(17)			LONGITUDINAL

CVN # 9

ID	Joules	% SHEAR	LAT. EXP.	REQUIREMENTS
25	12.0	20	.013"	Testing at -20° C
26	8.0	10	.008"	ACTUAL TEMP. -20.1 °C
27	11.0	20	.012"	Type A, SIZE 10 mm x 7.5 mm
AVE	10.3(14)			LONGITUDINAL

CVN # 10

ID	Joules	% SHEAR	LAT. EXP.	REQUIREMENTS
28	9.0	20	.010"	Testing at -20° C
29	9.0	20	.010"	ACTUAL TEMP. -20.5 °C
30	8.0	20	.010"	Type A, SIZE 10 mm x 7.5 mm
AVE	8.7(12)			LONGITUDINAL

CVN # 11

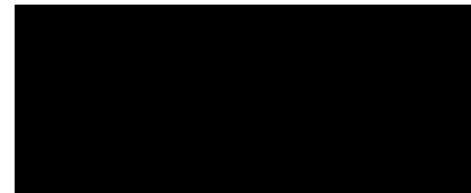
ID	Joules	% SHEAR	LAT. EXP.	REQUIREMENTS
31	9.0	20	.009"	Testing at -20° C
32	9.0	20	.010"	ACTUAL TEMP. -20.3 °C
33	9.0	20	.009"	Type A, SIZE 10 mm x 7.5 mm
AVE	9.0(12)			LONGITUDINAL

CVN # 12

ID	Joules	% SHEAR	LAT. EXP.	REQUIREMENTS
34	11.0	20	.012"	Testing at -20° C
35	8.0	10	.008"	ACTUAL TEMP. -20.1 °C
36	8.0	10	.009"	Type A, SIZE 10 mm x 7.5 mm
AVE	9.0(12)			LONGITUDINAL

(#) Approximate conversion to full size

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