



# Jefferson Lab Alignment Group

## Data Transmittal

<b>TO:</b> M. Fowler	<b>Page 1 of 2</b>	<b>DATE:</b> 15 Mar 2013
<b>FROM:</b> J. Dahlberg	<b>Checked:</b> Matt Walker 3/15/13	<b># :</b> C1497

**DETAILS:**

Data: Inspection\HallC\SHMSV130306A, 130306B

Below are the results from the SHMS bogie surveys carried out at CRAFT machine. Reference to drawing # 67135. Note that bogie points A through D are constructed from the measured wheel Z center without considering bearing clearances along Z.

**DRIVE END**

END TRUCK	FOUND	IDEAL	DIFF							
FOCAL POINT	750	748	2							
LEFT AXLE YAW	3.22	3.25	-0.03							
LEFT AXLE PITCH	0.02	0.00	0.02							
RIGHT AXLE YAW	3.25	3.25	0.00							
RIGHT AXLE PITCH	0.01	0.00	0.01							
LEFT BOGIE	FOUND	IDEAL	DIFF							
FOCAL POINT	744	748	-4							
OUTSIDE AXLE PITCH	1.39	1.38	0.01							
OUTSIDE AXLE YAW	1.70	1.70	0.00							
INSIDE AXLE PITCH	1.39	1.38	0.01							
INSIDE AXLE YAW	1.71	1.70	0.01							
LEFT BOGIE POINTS	X	Y	Z	IDEAL X	IDEAL Y	IDEAL Z	DIFF X	DIFF Y	DIFF Z	
A	21.744	-16.231	-14.700	21.744	-16.232	-14.634	0.000	0.001	-0.066	
B	-21.742	-16.229	-14.648	-21.744	-16.232	-14.634	0.002	0.003	-0.014	
C	22.612	-15.521	14.542	22.611	-15.528	14.609	0.001	0.007	-0.067	
D	-22.616	-15.520	14.594	-22.611	-15.528	14.609	-0.005	0.008	-0.015	
RIGHT BOGIE	FOUND	IDEAL	DIFF							
FOCAL POINT	748	748	0							
OUTSIDE AXLE PITCH	1.356	1.38	-0.02							
OUTSIDE AXLE YAW	1.698	1.70	0.00							
INSIDE AXLE PITCH	1.357	1.38	-0.02							
INSIDE AXLE YAW	1.699	1.70	0.00							
RIGHT BOGIE POINTS	X	Y	Z	IDEAL X	IDEAL Y	IDEAL Z	DIFF X	DIFF Y	DIFF Z	
A	21.737	-16.222	-14.497	21.744	-16.232	-14.634	-0.007	0.010	0.137	
B	-21.750	-16.222	-14.494	-21.744	-16.232	-14.634	-0.006	0.010	0.140	
C	22.605	-15.529	14.746	22.611	-15.528	14.609	-0.006	-0.001	0.137	
D	-22.617	-15.530	14.749	-22.611	-15.528	14.609	-0.006	-0.002	0.140	

# DATA TRANSMITTAL # C1497 (cont.)

## IDLER END

END TRUCK	FOUND	IDEAL	DIFF						
FOCAL POINT	747	748	-1						
LEFT AXLE YAW	3.26	3.25	0.01						
LEFT AXLE PITCH	0.00	0.00	0.00						
RIGHT AXLE YAW	3.24	3.25	-0.01						
RIGHT AXLE PITCH	0.01	0.00	0.01						
LEFT BOGIE	FOUND	IDEAL	DIFF						
FOCAL POINT	750	748	2						
OUTSIDE AXLE PITCH	1.37	1.38	-0.01						
OUTSIDE AXLE YAW	1.68	1.70	-0.02						
INSIDE AXLE PITCH	1.38	1.38	0.00						
INSIDE AXLE YAW	1.71	1.70	0.01						
LEFT BOGIE POINTS	X	Y	Z	IDEAL X	IDEAL Y	IDEAL Z	DIFF X	DIFF Y	DIFF Z
A	21.747	-16.230	-14.710	21.744	-16.232	-14.634	0.003	0.002	-0.076
B	-21.742	-16.230	-14.669	-21.744	-16.232	-14.634	0.002	0.002	-0.035
C	22.605	-15.531	14.533	22.611	-15.528	14.609	-0.006	-0.003	-0.076
D	-22.614	-15.528	14.573	-22.611	-15.528	14.609	-0.003	0.000	-0.036
RIGHT BOGIE	FOUND	IDEAL	DIFF						
FOCAL POINT	747.980	748	0						
OUTSIDE AXLE PITCH	1.394	1.38	0.01						
OUTSIDE AXLE YAW	1.715	1.70	0.02						
INSIDE AXLE PITCH	1.386	1.38	0.01						
INSIDE AXLE YAW	1.682	1.70	-0.02						
RIGHT BOGIE POINTS	X	Y	Z	IDEAL X	IDEAL Y	IDEAL Z	DIFF X	DIFF Y	DIFF Z
A	21.752	-16.233	-14.675	21.744	-16.232	-14.634	0.008	-0.001	-0.041
B	-21.743	-16.234	-14.632	-21.744	-16.232	-14.634	0.001	-0.002	0.002
C	22.611	-15.526	14.568	22.611	-15.528	14.609	0.000	0.002	-0.041
D	-22.619	-15.523	14.610	-22.611	-15.528	14.609	-0.008	0.005	0.001

