

BRUCE WAYNE
Certified Mobile Crane Inspector # 19-2365
Thru the Crane Institute of America
39 Spring Hollow Boulevard - Apopka, Florida 32712-5652
Telephone: 407-398-3972

**ANNUAL / SINGLE ENGINE / HYDRAULIC TRUCK
TELESCOPIC BOOM / CRANE INSPECTION**

Owner: Beyel Brothers, Inc. – 550 Cidco Road – Cocoa, Florida 32926 – 321-632-2000

Inspection Location: Beyel Brothers Yard – Taft Vineland Road – Orlando, Florida

Date: 02/18/2022 **Unit #:** 1231 **Capacity:** 80 Tons U.S.

Year: 2005 **Make:** Grove **Model:** TMS-800E **Serial #:** 224740

Odometer: 64,525 Miles **Hour Meter:** 10,640 Hours

Thorough Annual Inspection Jurisdiction: OSHA 29 CFR 1926.1400 CC / OSHA 29 CFR 1910.180
ASME B30.5 / PCSA # 4 And the Manufacturer's Specifications & Guidelines

NOTE: OSHA & ASME only allow qualified and competent persons to inspect cranes. To qualify, inspectors must have been through intensive training. They must have extensive knowledge. They must have passed a rigorous examination and can demonstrate their abilities and knowledge.

S = Satisfactory X = Safety Hazard M = Monitor R = Recommendation N/A = Not Applicable

Item	GENERERAL HISTORICAL DATA / RECORDS – INSPECTION CRITERIA	STATUS
1	Monthly Crane Inspection Records	S
2	Annual Crane Inspection Records	S
3	Maintenance & Repairs Reports	S
4	Load Test Records	S
5	Modification Records	N/A
	GENERAL CRANE APPEARANCE – INSPECTION CRITERIA	STATUS
6	Sheet Metal	S
7	Guards / Covers	S
8	External Lights	S
9	Housekeeping / Cleanliness	S
10	Barricades / Barricaded Job Site	S
11	Crane Hand Signal Chart Conspicuously Posted on the Job Site or on the Crane	S
	CARRIER / DRIVERS CABIN – INSPECTION CRITERIA	STATUS
12	Windshield / Side Glass / Rear Glass – Safety Glass	S
13	Windshield Wipers & Motors	S
14	Seat & Frame	S
15	Seatbelt	S
16	10 BC Fire Extinguisher	S
17	Low Air Warning Devices	S
18	Instruments / Gauges	S
	CARRIER POWER PLANT / ENGINE – INSPECTION CRITERIA	STATUS
19	Engine / Guards / Covers / Sheet Metal	S
20	Electrical System / Charging / Batteries / Alternator / Belts / Lights / Wiring / Terminals	S
21	Air System / Filters / Tubing / Fittings	S
22	Coolant System / Radiator / Fan / Belts / Guards / Covers	S
23	Fuel System / Filters / Tank / Hoses / Tubing / Fittings	S
24	Hydraulic System / Filters / Pumps / Motors / Pressures / Hoses / Tubing / Fittings	S
25	Exhaust System / Muffler / Tubing / Guards / Covers	S

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Item	CHASSIS – INSPECTION CRITERIA	STATUS
26	Transmission & Drive Train	S
27	Tires / Wheels / Suspension	S
28	Brakes: Service / Emergency / Parking	S
29	Main Frame / Structure	S
30	Rigging Boxes and other Additions	S
31	Fuel & Hydraulic Tanks	S
32	Deck Areas / Anti-Skid / Anti-Slip Surfaces	S
	OUTRIGGERS / STABILIZERS – INSPECTION CRITERIA	STATUS
33	Outrigger Boxes / Beams	S
34	Outrigger Floats / Pads	S
35	Outrigger Mats / Composite Mats	N/A
36	Outrigger Hydraulics / Holding Valves / Cylinders / Hoses / Tubing / Fittings	S
37	Outrigger Warning Signs / Markings / Decals	S
	OPERATORS CABIN / STATION – INSPECTION CRITERIA	STATUS
38	Access / Ladders / Steps / Grab Rails	S
39	Platforms / Decks / Anti-Skid / Anti-Slip Surfaces	S
40	Door Restraint System	S
41	Windows / Front Glass / Side Glass / Top Glass / Rear Glass – Safety Glass	S
42	Crane Cabin A/C / Ventilation	S
43	Operator Seat & Frame	S
44	Gauges / Instruments	S
45	10 BC Fire Extinguisher	S
46	Audible Horn	S
47	Travel Brakes / Travel Controls / Travel Locks	S
48	Operators Manual / Service Manual	S
49	Positive House Lock / Swing Brake	S
50	Crane Hand Signal Chart Inside the Cabin	S
51	Electrocution Proximity Warning Inside the Cabin	S
52	Crane Load Chart is Legible / Durable / Permanently Secured & @ the Manufacturer's Specifications	S
53	All Controls are Marked for Function @ the Manufacturer's Specification & Function Accordingly	S
	CRANE SAFETY / OPERATOR AIDS – INSPECTION CRITERIA	STATUS
54	Crane Computer	S
55	Boom Angle Indicator	S
56	Boom Length Indicator	S
57	Load Moment / Weight Indicator	S
58	Load Radius Indicator	S
59	Crane Level Indicator	S
60	Outrigger / Stabilizer Position Sensor(s)	S
61	Hoist Drum Rotation Indicator(s)	S
62	Boom Extension / Jib / Luffing Jib Angle Indicator / Sensor(s)	N/A
63	Anti-2-Block Warning System	S
	ROTATING SUPER STRUCTURE – INSPECTION CRITERIA	STATUS
64	Access / Ladders / Steps / Grab Rails	S
65	Platforms / Decks / Anti-Skid / Anti-Slip Surfaces	S
66	Swing Gear Motor / Box	S
67	Swivel / Hydraulics	S
68	Turntable / Rotec / Ball Circle	S
69	Crane A-Frame	S
70	Crane Warning Signs – Electrocution Proximity Warning / Danger – Stand Clear	S
701	Front Hoist Drum Wire Rope Cable (2 wrap minimum)	S
72	Front Hoist Drum Wire Rope Cable Spooling	S
73	Rear Hoist Drum Wire Rope Cable (2wrap minimum)	S
74	Rear Hoist Drum Wire Rope Cable Spooling	S

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Item	ROTATING SUPER STRUCTURE – INSPECTION CRITERIA (CONTINUED)	STATUS
75	Hoist Drum Hydraulics / Motors / Hoses / Tubing / Fittings	S
76	Hoist Drum Brakes	S
77	Counterweight / Mounts / Locks / Pins / Keepers	S
78	Counterweight Warning Signs – Danger Crane Swing	S
	MAIN BOOM – INSPECTION CRITERIA	STATUS
79	Main Boom Hinge Pin / Heel Pin / Keepers	S
80	Main Boom Lift Cylinder(s)	S
81	Main Boom Telescoping Cylinders	S
82	Main Boom Hydraulics / Holding Valves / Hoses / Tubing / Fittings	S
83	Main Boom Sections Alignment	S
84	Main Boom Sections Structure	S
85	Main Boom Sections Wear Pads / Rollers	S
86	Main Boom Section Head & Sheaves	S
87	Main Boom – Auxiliary Boom Head / Rooster Sheave	S
88	Main Boom Wire Rope Retainers	S
89	Main Boom Anti-2-Block Device	S
90	Main Boom – Auxiliary Anti-2-Block Device	S
91	Main Boom Attachments / Lights / Flags / Anemometer / etc.	S
	BOOM EXTENSION – INSPECTION CRITERIA	STATUS
92	Boom Extension Mounts / Locks / Pins / Keepers	S
93	Boom Extension End Connectors / Sockets	S
94	Boom Extension Off Sets	S
95	Boom Extension Alignment	S
96	Boom Extension Structure	S
97	Boom Extension Sheaves / Rollers / Wear Bars	S
98	Boom Extension Head & Sheaves	S
99	Boom Extension Wire Rope Retainers / Keepers	S
100	Boom Extension Anti-2-Block Device(s)	S
101	Boom Extension Attachments / Lights / Flags / Anemometer / Etc.	S
	JIB / FLY EXTENSION – INSPECTION CRITERIA	STATUS
102	Jib / Fly Extension Mounts / Locks / Pins / Keepers	S
103	Jib / Fly Extension End Connectors / Sockets	S
104	Jib / Fly Extension Alignment	S
105	Jib / Fly Extension Structure	S
106	Jib / Fly Extension Head & Sheaves	S
107	Jib / Fly Extension Wire Rope Retainers / Keepers	S
108	Jib / Fly Extension Anti-2-Block Device	S
109	Jib / Fly Extension Attachments / Lights / Flags / Anemometer / Etc.	S

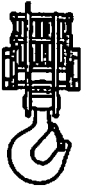
WIRE ROPE DATA												
Item	Application	Type	Size	Const	Grade	Core	Damage	Wear	Wires	Lube	Term	STATUS
110	Front Hoist	RRL	19 mm	35 x 7	EIPS	IWRC	S	S	S	S	S	S
111	Rear Hoist	RRL	19 mm	35 x 7	EIPS	IWRC	S	S	S	S	S	S

WIRE ROPE CABLE - INSPECTION CRITERIA					
Cable Measurement	Inspection - 0 °	Inspection - 20 °	Inspection - 40 °	Inspection - 60 °	Inspection - 80 °
Front Hoist	19 mm	19 mm	19 mm	19 mm	19 mm
Rear Hoist	19 mm	19 mm	19 mm	19 mm	19 mm

NOTE: The written designation for the size of the wire rope(s) noted above does not change nor diminish the capacity, capability or construction of the wire rope cable but serves as a measurable reference only. This measurement gives a basis for future inspections over the next year for each wire rope cable / hoist drum and this reference can be utilized over the next year or until such time as mandated by OSHA, ASME, PCSA, or the Manufacturer's Specifications and Regulations. These inspection locations refer to the main boom angle and the corresponding wire rope cable measurements at each hoist drum location.

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Item # 112		OVERHAUL / HEADACHE BALL & HOOK	
			
Manufacturer:	Johnson	Ball Weight:	526 lbs.
Rated Capacity:	12 Tons U.S.	Wire Rope Size:	19 mm
INSPECTION CRITERIA			STATUS
Capacity Marking			S
Weight Marking			S
Hook Safety Latch			S
0 Degree Hook Bend / Twist			S
5 % Hook Opening or 1/4 "			S
10% Hook Wear Maximum			S
Swivel			S
Bearing			S
Wedge Socket / Becket / End Termination Device			S
Non-Destructive Testing			N/A
Wire Rope Reeving			1 Part
Hook Tram Measurement			5 Inches
Hook Configuration			Single

Item # 113		MAIN LOAD BLOCK & HOOK	
			
Manufacturer:	Johnson	Block Weight:	685 lbs.
Rated Capacity:	40 Tons U.S.	Wire Rope Size:	19 mm
INSPECTION CRITERIA			STATUS
Capacity Marking			S
Weight Marking			S
Hook Safety Latch			S
0 Degree Hook Bend / Twist			S
5 % Hook Opening or 1/4 "			S
10% Hook Wear Maximum			S
Swivel			S
Bearing			S
Wedge Socket / Becket / End Termination Device			S
Non-Destructive Testing			N/A
Sheaves			3 Sheaves
Wire Rope Reeving			7 Part
Hook Tram Measurement			10 Inches
Hook Configuration			Single

No Load on the Crane – Operational Test	
Was a No Load, Operational Test Performed ?	Yes
Outriggers Extended / Retracted ?	Yes
Outrigger Mats Utilized ?	No
Crane Counterweight Mounted ?	Yes
Crane Boomed Up and Down ?	Yes
Crane Telescopic Boom Extended / Retracted ?	Yes
Crane Boom Extension Installed ?	Installed but not Erected – N/A
Crane Jib Extension Installed ?	Installed but not Erected – N/A
Front Hoist Line Wire Rope Cable Raised / Lowered ?	Yes
Rear Hoist Line Wire Rope Cable Raised / Lowered ?	Yes
Crane Swing Engaged Right / Left ?	Yes
Results of the Crane Operational Test	SATISFACTORY
Notes:	

Load on the Crane – Operational Test							
Was a Loaded, Operational Test Performed						NO	
Results of the Operational Test						N/A	
Holisting from	Boom Length	Load Radius	Boom Angle	Parts of Load Line	Rated Capacity	Test Weight	% of Rated Capacity
Main Boom - Max Cwt	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Notes:							
N/A							

Bruce Wayne – Certified Mobile Crane Inspector # 19-2365 Thru the Crane Institute of America

Inspector Signature: Bruce Wayne  02/18/2022

DEFICIENCY & REPAIRS REPORT			
Owner:	Beyel Brothers, Inc.	Year:	2005
Unit #:	1231	Make:	Grove
Inspection Date:	02/18/2022	Model:	TMS-800E
Inspection Info:	Beyel 1231 02.18.2022	S/N:	224740

The corrective actions (repairs, adjustments, parts replacement, corrections, etc.) listed below are to be performed by a qualified person in accordance with the manufacturer's instructions, specifications, and requirements. Standards require that if any item listed below is identified as a safety hazard / deficiency (X), the equipment must be taken out of service until the safety hazard has been corrected.

If the qualified person determines that though not presently a safety hazard, and the items listed are marked as monitor (M) or recommendations (R), the owner / employer must ensure those items are checked in the daily, weekly, and monthly inspection reports hereafter until those items have been corrected. A log of those repairs, signed by the qualified person and dated when those actions were corrected, shall be maintained within the equipment file as required by OSHA, ASME, PCSA and the Manufacturer's specifications and guidelines.

It is understood that this annual inspection only provides a baseline by which future inspections should be measured over the next year or until such time as mandated by OSHA, ASME, PCSA or the Manufacturer Regulations. This inspection does not preclude the necessity for the owner / owner's representative to perform required maintenance and conduct competent inspections and further, by signing below, do hereby grant assurance that they will perform said maintenance and inspections in conjunction with a regular maintenance and inspection program as outlined in OSHA, ASME, PCSA and the Manufacturer's specifications and/or in accordance with local, municipal, state, and federal rules, regulations, ordinances, and standards or by directives exceeding such (IE. mandatory job site safety protocols).

Further, it is expressly understood that this inspection does not constitute a warranty or guarantee in any manner for the performance of the referenced equipment herein, or for the future performance of the referenced equipment herein.

X = Safety Hazard M = Monitor R = Recommendation

ITEM #	X-M-R	CORRECTIVE ACTION	DATE CORRECTED AND SIGNATURE
		There were NO DEFICIENCIES found during the crane inspection.	

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Inspector Signature: Bruce Wayne  02/18/2022

Danilo McCarthy 02/18/2022
 Owner / Corporate Representative / Responsible Job Site Party - Signatory Authority / Name / Signature / Date