

Department of Labor and Industries
 Division of Occupational Safety & Health
 PO Box 44650
 Olympia WA 98504-4650 Office: (360) 902-4943
 Email: LNICranes@Lni.wa.gov Fax: (360) 902-5438



Mobile Cranes/Derricks Worksheet for Construction Industry

Name of Owner (Not Lessee) Parsons/Shimmick	Permanent Sticker ID # C 0006836	Inspection Exp. Date 8/11/2022	Proof Load Test Exp. Date 8/11/2022
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Mailing Address 1216 140 th Court E	City Sumner	State WA	Zip+4 98390	Phone Number
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Owner's Email Address: _____

Is this Crane Leased or Rented Yes No If Yes, Write Lessee's Name and Address below: Send Certification to this address

Description: <input type="checkbox"/> Lattice Boom <input checked="" type="checkbox"/> Hydraulic Boom <input type="checkbox"/> Articulating Boom <input type="checkbox"/> Derrick <input type="checkbox"/> Other _____	Owner's ID # 400-13536
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Manufacturer Grove	Max Rated Capacity in Lbs 100,000 lbs.	Model Number RT6000E	Serial Number 227171	Hr Mtr. Reading 5519.0
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Boom Length at Time of Inspection: 33- 105 feet	Jib Length at time of Inspection: 29-51 feet	If Derrick, state type, Breast, Stiff-leg, A-Frame, etc. NA
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Wire Rope	No. Parts	Diameter	No. Strands	Wires per Strand	Rotation Res. (Yes/No)	Breaking Strength
Main Hoist	3	3/4 inch	6	37	No	58,000 lbs.
Whip	1	3/4 inch	Flex X	35	Yes	16,800 lbs.
Boom						
Boom Pendants						

The following items must be inspected where applicable: (if not applicable, so indicate)

	Accept	N/A		Accept	N/A
a) Chassis, Tires, Steering	X		p) Ladders, Hand Holds	X	
b) Fluid Leaks & Fluid Levels	X		q) Brakes, Hoist, Boom, Turret, etc.	X	
c) Guards, Rails, Windows	X		r) Load Charts and Operator's Manual	X	
d) Outriggers, Stabilizers, Pads	X		s) Housekeeping / Maint. & Insp. Records	X	
e) Rotation Bearing / Swing Lock	X		t) Boom including Wear Pads if applicable	X	
f) Hook Rollers and Load Rollers		X	u) Boom Extensions, Jib	X	
g) Counterweights per Manufacturer	X		v) Structural Welds	X	
h) Data Plates / Warning Signs, Decals	X		w) Boom and Hoist Sheaves	X	
i) Controls / Functions / Labeled	X		x) Pennant Bars / Cables and Links		X
j) Lights / Signals / Horn	X		y) Operational Aids / Safety Devices	X	
k) Gauges working	X		z) Anti-Two-Block Device	X	
l) Backup Alarm	X		aa) Limit Switches	X	
m) Fire Extinguisher (10BC min.)	X		bb) Hook(s)	X	
n) Electrical Equipment	X		cc) Wire Rope Becketts, Pins	X	
o) Hydraulic Systems	X		dd) Hoist Drum	X	

FREELY SUSPENDED PROOF LOAD TEST REQUIRED: Proof load test for cranes must be based on manufacturer's load ratings and must be at least 100% but not exceeding 110% of the rated capacity. Derricks must be proof load tested in excess of safe working load: for capacities up to 20 tons = proof load 25% in excess; 20 tons to 50 tons = Proof-load 5 tons in excess; over 50 tons = 10% in excess.

Main or Whip	Boom Length (Feet)	Radius (Feet)	Boom Angle (Degrees)	Rated Capacity (Lbs)	Total Deductions (Lbs)	Net Rated Capacity (Lbs)	Test Load (Lbs)	Load Test (%)	Crane Configuration & Test Range
Main	100'	50'	60.5	13,000	1,307	11,693.	13,538	104%	Site limited swing, 360 chart
Whip	105'	80'	40	5,490	1,307	4,183	5,521	100%	Site limited swing, 360 chart

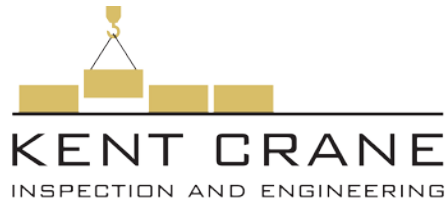
Was This Crane Tested on Rubber? Yes (List parameters below) No

Means of Application of Proof Load Test see WAC 296-155-53200(7)(f) Certified Test Weights Weights Using Currently Calibrated Scale
 ("Known weights" is not acceptable)

Remarks: Additional sheets attached? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Crane Operator's Name (please print) Erin
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I hereby certify the above tests and/or examinations have been conducted in accordance with the Washington State Safety Standards for Construction Operations, WAC 296-155. A copy of this worksheet will be used as a temporary certificate until the annual certification is issued. This temporary certificate is valid for 30 days after the date of this inspection

Date 8/11/2021	Accredited Certifier's Name (please print) Derek J. Bohn	Accredited Certifier's ID # 100153
Certifier's Phone # 206-556-1060	Address 11520 42 nd Avenue South, Tukwila, WA 98168	Signature of Accredited Certifier



11520 42nd Ave S
Tukwila, WA 98168
206-455-5121
www.kentengineering.com

Parsons Company
Grove RT600#E
Crane Serial No. 227171

August 11, 2021

Mr. Kris Phillips
Parsons Company
1216 140th Court East
Sumner, WA 98390

Re: Parsons, Grove RT600E Inspection Report

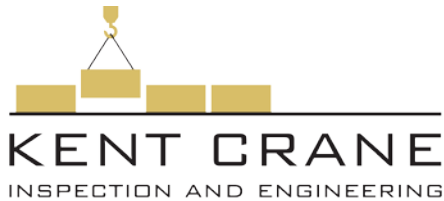
Dear Mr. Phillips:

Kent Crane Inspection Services (KCIS) was hired by Parsons Company to provide a third-party inspection of the Grove RT600E hydraulic crane, serial number: 227171. It was inspected on site at the Bellevue Way Sound Transit Project in Bellevue, WA.

The inspection was performed according to WAC 296-155, ASME B30.3, Fed OSHA 1926, AWS D1.1 and other applicable standards. These regulations and requirements cover all components of the crane. The requirements address control systems, welds, fasteners, structural evaluations, and lift components, among other items Kent Crane Inspectors and Engineers are experienced in crane design and failure analysis. Our inspectors have been trained to perform a complete and thorough assessment of your crane. This assessment includes evaluation of weld anomalies and their effect on performance and long term reliability. Structural components and fasteners are assessed for degradation due to corrosive attack or wear. Kent Crane is experienced in identifying common electrochemical corrosion cells and projecting the rate of environmental degradation.

Findings:

1. The subject crane has corrosion problems throughout. It is recommended that corrosion be removed, and paint be applied to prevent further rusting.
2. The drum rotation indicators for the main and whip line controls intermittently work and need to be repaired to function at all times.
3. The danger/warning hazard stickers are faded and peeling and should be replaced.
4. The hour meter is broken and should be replaced.



Re: Parsons, Grove RT600E Inspection Report

Summary:

Kent Crane Inspection was onsite August 11, 2021 in Bellevue, WA for the inspection of the Grove RT600E crane. With the exception of the aforementioned findings, there were no visible defects noted at the time of inspection. The wire ropes were inspected, and no broken wires or other damage was found. The required load test was performed using a certified load cell. The load tests consisted of suspending from the main block, a weight equal to 13,538 lbs. at a radius of 50 feet for the structural test and 5,521 lbs. at a radius of 80 feet from the auxiliary drum for the stability test.

If there are concerns regarding this report, please contact Derek Bohn at Kent Crane Inspection Services at 206-556-1060.

Sincerely, Kent Crane Inspection Services, LLC.

A handwritten signature in black ink, appearing to read "Derek Bohn", written in a cursive style.

Derek J. Bohn
General Manager/Managing Inspector
Fed OSHA Signatory
WA. State Cert. #100153
Derek.Bohn@Kentengineering.com

Our inspection and report is advisory only and is exclusively limited to the matters stated herein. KCIS has not been requested to and does not warrant the merchantability or fitness of the equipment for its intended use, and we make no representations with regarding thereto. KCIS has not analyzed the materials used in or construction of the equipment other than as stated above and expresses no opinion thereon. KCIS does not accept responsibility for any damages whether personal injury, property damage or otherwise, arising from the ownership, rental, possession or use of equipment.