



***Crane Inspections, Engineering,
and Safety Training***

January 24, 2012

Via Email (.pdf)

Mr. Ken Locke
Locke Crane Service
PO Box 219
Raymond NH 03077
locke@lockecraneservices.com

**RE: Annual Inspection
Grove/GMK 4080-1/4080 2115
9
Enso No.: HRP975A**

Dear Ken:

Per your request and authorization, Stephen Perry, has conducted an inspection of the above referenced equipment for the purpose of an Annual Certification on January 24, 2012. The inspection was conducted pursuant to OSHA Standard 1926.1400.

As documentation of the inspection, please find the attached.

- **Mobile Crane Inspection Report** completed during the inspection.
- **Photographs** taken at time of Inspection.
- Our **Applicable to Inspection Reports**.
- **Certification of Inspection**.

I trust that the foregoing provides you with the information that you require at this time. Please do not hesitate to contact me at (603) 781-7795 or by email at stephen@ensocrane.com, should you have any questions regarding this inspection.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephen M. Perry", with a long horizontal flourish extending to the right.

Stephen M. Perry,
CCAA Certified Mobile Crane Surveyor

(603) 781-7795

www.ensocrane.com

Boston, MA
Portsmouth, NH
Portland, ME

Mobile Crane Inspection Report

OSHA Standard:	1926.1400	Date Inspected:	1/24/2012
Type of Inspection:	Annual	Project Number:	HRP975A
OSHA Approved Surveyor (Inspector): Stephen Perry			

EQUIPMENT IDENTIFICATION

Owner's Unit No.:	9		
Name & Address of Owner:	Locke Crane Service		
Manufacturer:	Grove	Model:	GMK 4080-1
		Serial No.:	4080 2115
Crane Description:	Hydraulic Truck Crane		Max Capacity: 100 Ton
Crane Location at Time of Inspection:	Tewksbury MA		

S = Satisfactory U = Unsatisfactory N/A = Not Applicable

INSPECTION ITEM	S	U	NA	INSPECTION ITEM	S	U	NA
CARRIER				HYDRAULIC SYSTEM			
Under Carriage Condition	✓			Boom Hoist Cylinders & Lines	✓		
Loose/Missing Nuts & Bolts	✓			Boom Extension Cylinders & Lines	✓		
Fluid Leaks	✓			Outrigger Extension/Retraction	✓		
Outriggers, Controls & Locks	✓			Hoist Drum Hydraulic Lines	✓		
Outriggers, Pads & Floats	✓			Auxiliary Hoist Hydraulic Lines	✓		
Hand Holds, Steps, Rails & Walks	✓						
Hydraulic Reservoir Tank				HOIST (MAIN)			
Fuel Tank & Cap	✓			Drums & Flanges	✓		
				Roller(s) & Cable Guides	✓		
				Main Drum Secure & Aligned	✓		
				Drum Rotation Indicator(s)	✓		
LOWER CAB				WIRE ROPE			
Warning Lights & Horns	✓			Hoist Brake	✓		
Windshield Wipers & Blades	✓						
Heater – Defroster	✓			WIRE ROPE			
Mirrors	✓			Main Hoist Rope Condition	✓		
Steering Wheel (Excess Play)	✓			Auxiliary Hoist Rope Condition			
Glass	✓			Main Hoist End Attachment	✓		
Fire Extinguisher	✓			Auxiliary Hoist End Attachment	✓		
All Lights/Signals	✓			Drum Spooling	✓		
All Control Mechanisms	✓						
Overall Cleanliness	✓			NOTES			
UPPER WORKS							
Turret	✓						
Brake/Lock	✓						
Swing Pinion	✓						
Main Rotation Gear	✓						
Boom Foot Pins	✓						
Counterweight	✓						

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INSPECTION ITEM	S	U	NA	INSPECTION ITEM	S	U	NA
LOAD BLOCK				OPERATOR'S CAB			
Main Load Block	✓			Cleanliness	✓		
Wedge Socket Termination	✓			Boom Angle Indicator	✓		
Hook Condition	✓			Gauges Operational	✓		
Safety Latch	✓			All Controls Identified	✓		
Hook Throat Opening	✓			Swing Lock Operational	✓		
				Cab Glass	✓		
HEADACHE BALL				Windshield Wiper			
Wedge Socket Termination			✓	Fire Extinguisher	✓		
Swivel			✓	Signal Horn	✓		
Center Pin			✓	Load Rating Chart	✓		
Hook Condition			✓	Operators Manual	✓		
Safety Latch			✓	Daily Inspection Log	✓		
Hook Throat Opening			✓	Anti Two-Block System I	✓		
				Crane Level Indicator	✓		
BOOM EXTENSION & JIB							
Main Boom Structure	✓			LOAD INDICATING DEVICES			
Hinge Pins	✓			Load Moment Indicator	✓		
Welded Connections	✓			Boom Length	✓		
Boom Wear Pads	✓			Boom Angle	✓		
Boom Lubrication	✓			Load Radius	✓		
All Sheaves	✓			Load Limit Cutout	✓		
Boom Tip Keeper Pins	✓						
Extension Condition	✓			PLACARDS & WARNINGS			
Stowing Hinge	✓			Swing Radius Warning	✓		
				Overhead Power Line Warning	✓		
				Hand Signal Signs Posted	✓		
				Special Hazard Warnings	✓		
				Annual Crane Certificate	✓		

Mobile Crane Inspection Report – Hydraulic (Page 2 of 2)

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Enso Crane Services

Hydraulic Truck Crane Grove/GMK 4080-1/4080 2115



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APPLICABLE TO INSPECTION REPORTS

Inspection reports are based upon observed procedures and inspections performed by Enso Crane Services, but are not intended to replace or supersede the necessity for routine or preventative maintenance or procedures recommended by others, such as, but not limited to manufacturers, operators, and other inspecting organizations or persons.

Referral to applicable regulations is essential with regard to responsibilities of owners and users for use, maintenance, and normal operational inspections. It is especially important that owners and users, regularly and by means of extraordinary disassembly and/or non-destructive testing, arrange to effectively examine parts of the equipment, which may be reasonably accessible by routine examinations, including such examinations by Enso Crane Services.

Equipment owners and users should assure continuous compliance with all manufacturer's regulatory and other applicable performance specifications, including but not limited to, full range accuracy of load indicating devices, machinery, etc., regardless of the extent to which specifications can be evaluated during Enso Crane Services inspections.

Other requirements of applicable Federal and State regulations not specifically considered within the scope or recorded by related Enso Crane Services' reports, remain for the continuing attention and responsibility of equipment owners and users, including but not limited to, adequate lighting, walkways, ladders, stairways, clearance between moving and fixed structures, electrical motor restart lockouts, fire extinguishers in the vicinity, etc.

Approved OSHA Surveyors (Inspectors) Under OSHA Maritime Regulation (CFR 1919)

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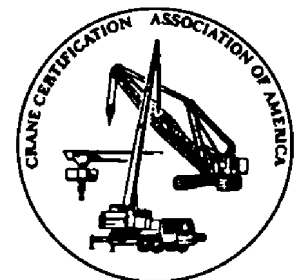
Inspection Certification

Owner: Locke Crane Service
OSHA Standard: 1926.1400
Equipment Description: Hydraulic Truck Crane
Make/Model/Serial No.: Grove/GMK 4080-1/4080 2115
Maximum Rated Capacity: 100 Ton
Certificate No.: HRP975A

On January 24, 2012 the above described equipment was inspected and/or tested, in accordance with established industry standards and guidelines, pursuant to applicable OSHA/ANSI/ASME codes and standards. No condition, whether expressed or implied, will cause the qualification of this equipment to extend beyond the date of inspection. Continuance of compliance is dependent upon your adherence to the maintenance policies, operation procedures and manufacturers specifications.

A handwritten signature in black ink, appearing to read "Stephen M. Perry".

Stephen M. Perry,
CCAA Certified Mobile Crane Surveyor



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Mr. Ken Locke
Locke Crane Service
PO Box 219
Raymond NH 03077
locke@lockecraneservices.com

**RE: Annual Inspection
Grove/TMS 700E/224642
Enso No.: HRP975B**

Dear Ken:

Per your request and authorization, Stephen Perry, has conducted an inspection of the above referenced equipment for the purpose of an Annual Certification on January 24, 2012. The inspection was conducted pursuant to OSHA Standard 1926.1400.

As documentation of the inspection, please find the attached.

- **Mobile Crane Inspection Report** completed during the inspection.
- **Deficiency/Recommendation Report.**
- **Photographs** taken at time of Inspection.
- Our **Applicable to Inspection Reports.**
- **Certification of Inspection.**

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Mobile Crane Inspection Report

OSHA Standard:	1926.1400	Date Inspected:	1/24/2012
Type of Inspection:	Annual	Project Number:	HRP975B
OSHA Approved Surveyor (Inspector): Stephen Perry			

EQUIPMENT IDENTIFICATION

Owner's Unit No.:			
Name & Address of Owner: Locke Crane Service			
Manufacturer: Grove	Model: TMS 700E	Serial No.:	224642
Crane Description: Hydraulic Truck Crane		Max Capacity: 60 Ton	
Crane Location at Time of Inspection: Tewksbury MA			

S = Satisfactory U = Unsatisfactory N/A = Not Applicable

INSPECTION ITEM	S	U	NA	INSPECTION ITEM	S	U	NA
CARRIER				HYDRAULIC SYSTEM			
Under Carriage Condition	✓			Boom Hoist Cylinders & Lines	✓		
Loose/Missing Nuts & Bolts	✓			Boom Extension Cylinders & Lines	✓		
Fluid Leaks	✓			Outrigger Extension/Retraction	✓		
Outriggers, Controls & Locks	✓			Hoist Drum Hydraulic Lines	✓		
Outriggers, Pads & Floats	✓			Auxiliary Hoist Hydraulic Lines	✓		
Hand Holds, Steps, Rails & Walks	✓						
Hydraulic Reservoir Tank				HOIST (MAIN)			
Fuel Tank & Cap	✓			Drums & Flanges	✓		
				Roller(s) & Cable Guides	✓		
				Main Drum Secure & Aligned	✓		
				Drum Rotation Indicator(s)	✓		
LOWER CAB				WIRE ROPE			
Warning Lights & Horns	✓			Hoist Brake	✓		
Windshield Wipers & Blades	✓						
Heater – Defroster	✓			WIRE ROPE			
Mirrors	✓			Main Hoist Rope Condition	✓		
Steering Wheel (Excess Play)	✓			Auxiliary Hoist Rope Condition			
Glass	✓			Main Hoist End Attachment	✓		
Fire Extinguisher	✓			Auxiliary Hoist End Attachment	✓		
All Lights/Signals	✓			Drum Spooling	✓		
All Control Mechanisms	✓						
Overall Cleanliness	✓			NOTES			
UPPER WORKS							
Turret	✓						
Brake/Lock	✓						
Swing Pinion	✓						
Main Rotation Gear	✓						
Boom Foot Pins	✓						
Counterweight	✓						

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INSPECTION ITEM	S	U	NA	INSPECTION ITEM	S	U	NA
LOAD BLOCK				OPERATOR'S CAB			
Main Load Block	✓			Cleanliness	✓		
Wedge Socket Termination	✓			Boom Angle Indicator	✓		
Hook Condition	✓			Gauges Operational	✓		
Safety Latch	✓			All Controls Identified	✓		
Hook Throat Opening	✓			Swing Lock Operational	✓		
				Cab Glass	✓		
HEADACHE BALL				Windshield Wiper			
Wedge Socket Termination	✓			Fire Extinguisher	✓		
Swivel	✓			Signal Horn	✓		
Center Pin	✓			Load Rating Chart	✓		
Hook Condition	✓			Operators Manual	✓		
Safety Latch	✓			Daily Inspection Log	✓		
Hook Throat Opening	✓			Anti Two-Block System I	✓		
				Crane Level Indicator	✓		
BOOM EXTENSION & JIB							
Main Boom Structure	✓			LOAD INDICATING DEVICES			
Hinge Pins	✓			Load Moment Indicator	✓		
Welded Connections	✓			Boom Length	✓		
Boom Wear Pads	✓			Boom Angle	✓		
Boom Lubrication	✓			Load Radius	✓		
All Sheaves	✓			Load Limit Cutout	✓		
Boom Tip Keeper Pins	✓						
Extension Condition	✓			PLACARDS & WARNINGS			
Stowing Hinge	✓			Swing Radius Warning	✓		
				Overhead Power Line Warning	✓		
				Hand Signal Signs Posted	✓		
				Special Hazard Warnings	✓		
				Annual Crane Certificate	✓		

Mobile Crane Inspection Report – Hydraulic (Page 2 of 2)

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Deficiency/Recommendation Report

OSHA Standard: 1926.1400	Date Inspected: 1/24/2012
Type of Inspection: Annual	Project Number: HRP975B
OSHA Approved Surveyor (Inspector): Stephen Perry	

EQUIPMENT IDENTIFICATION

Owner's Unit No.:			
Name & Address of Owner: Locke Crane Service			
Manufacturer: Grove	Model: TMS 700E	Serial No.: 224642	
Crane Description: Hydraulic Truck Crane	Max Capacity: 60 Ton		
Crane Location at Time of Inspection: Tewksbury MA			

The following deficiencies require proper corrective action prior to the issuance of a certificate and sticker. Deficiencies must be corrected within 30 days of the inspection; otherwise a complete re-inspection of the equipment will be required. Once corrective action has been complete, contact Enso Crane Services at the address and telephone number below to have the unit's deficiencies(s) re-inspected for certification. Recommendations are made to improve equipment utilization and safety. Although not mandatory for certification, correction is highly recommended.

Deficiencies	Date Corrected
Recommendations	
Slight dent in first scoping section	
Jib should be painted to arrest corrosion	

Enso Crane Services

Hydraulic Truck Crane Grove/TMS 700E/224642



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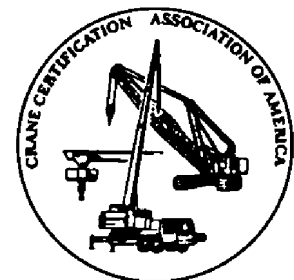
Inspection Certification

Owner: Locke Crane Service
OSHA Standard: 1926.1400
Equipment Description: Hydraulic Truck Crane
Make/Model/Serial No.: Grove/TMS 700E/224642
Maximum Rated Capacity: 60 Ton
Certificate No.: HRP975B

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