



LIFTING GEAR INSPECTION AID

Owner's Identification of Equipment:	
Type of Equipment:	
Equipment Location:	
Vessel Name/ON (if applicable)	
Owner's Name and Address:	
ICGB Registration Number:	
Date of Inspection:	
Attending ICGB Appointee Name / No:	

International Cargo Gear Bureau appointees are to conduct inspections of lifting gear using this aid as a guide, with some of the items potentially not being applicable to the gear being inspected. Appointees are to verify that lifting gear meets standards set forth by the United States Department of Labor, the United States Coast Guard, the appropriate Classification Society, and the International Cargo Bureau, as applicable. References are provided to assist in the inspection process.



Administrative Items	Yes	No	N/A	Remark
Inspection Date Scheduled				
Review Files				
- Previous quinquennial certificates				
- Previous annual certificates				
- Previous special unit tests				
- Wire rope certificates				
- Annealing certificates				
- Loose gear certificates				
Other:				

Inspector Safety	Yes	No	N/A	Remark
Do you have appropriate PPE? (i.e. hard hat, safety glasses, reflective jacket, coveralls, etc.)				
Do you have an air monitor if entering confined spaces?				
Do you have a flashlight?				

Pre-Inspection Items	Yes	No	N/A	Remark
Is the crane fitted with a Load Indicating Device with calibration certificate?				
Is the crane fitted with an anti-two-blocking device with calibration certificate?				
Have repairs been conducted since the last inspection?				



Were there any deficiencies after the last inspection?				
Are there any outstanding deficiencies?				
Are wire rope certificates up to date and pertaining to those fitted?				
Is lifting gear inspected per owner's maintenance schedule?				
Is operator's manual available and up to date?				
Are maintenance manuals available and up to date?				
Are severe weather conditions manuals available and up to date?				
Is lifting gear book stamped?				
Other:				

Visual Inspection Items	Yes	No	N/A	Remark
Make / model / serial no. of lifting gear				
Lifting gear service? (i.e. cargo handling, machinery, etc.)				
Structure				
- Are there any structural damages?				
- Are bolts, pins, keepers, etc. corroded, missing, or loose?				
- Is condition of coating satisfactory?				
- Are there areas of structural wastage?				
- Is the boom heel assembly in satisfactory condition?				
- Is there a nameplate attached to equipment?				
Moveable Parts / Linkages				



- Is the slewing gear well-greased?				
- Do winch drums have knife edges between grooves?				
- Do winch drums have excessively deep grooves?				
- Do winch motors have oil leaks?				
- Do mechanical systems have air leakages?				
- What is the primary braking system?				
- Is the primary braking system in satisfactory condition?				
- Is there an emergency braking system?				
- Do emergency brakes operate satisfactorily?				
- Were all blocks and sheaves in satisfactory condition?				
- Was loose gear (other than blocks) in satisfactory condition?				
- Was lifting equipment in satisfactory condition? (Clamshells, spreaders, etc.)				
Wire Ropes				
- Are wire ropes well-greased?				
- Are wire ropes damaged (kinks, fish hooks, visible core, etc.)?				
- Are wire ropes properly reaved?				
Operational Systems				
- How is the lifting gear powered?				
- Are electrical wires in satisfactory condition?				
- Do electrical components and switches operate satisfactorily and are they in satisfactory condition?				



- Are control systems worn or contaminated with foreign matter?				
- Are prime movers in satisfactory visual / operational condition?				
- Are umbilical chords intact and in satisfactory condition?				
- Are travel trucks in satisfactory condition?				
Safety				
- Are tie downs provided?				
- Is the SWL prominently posted on the structure?				
- Is there a wind indicating device?				
- Are fire extinguisher service dates up to date?				
- Were there guard rails and other safety equipment fitted?				
- Was safety signage prominently posted?				
Traveling Cranes:				
- Are travel trucks in satisfactory condition?				
- Is there an audible alarm when crane is traveling?				
- What are the primary brakes for travel trucks? Satisfactory?				
- What are the secondary brakes for travel trucks? Satisfactory?				
Gantry Cranes:				
- Was the trolley in satisfactory condition?				
- Are trolley rails and pins in satisfactory condition?				
- What is the braking system for the trolley? Satisfactory?				
Other:				



Operational Inspection Items	Yes	No	N/A	Remark
Does the limit switch function at upper and lower limits for all equipment?				
Is there an upper/lower limit alarm?				
Are there boom/hook slowdowns towards the upper/lower limits?				
Is there an audible alarm when lifting gear is overloaded?				
Are luffing, slewing, and hoisting movements smooth? (No jerking)				
Is there any audible whining, screeching, or grinding?				
Where are controls located?				
If gear has cab:				
- Does operator have clear view from cab?				
- Is there a durable rating chart?				
- Is there a boom angle indicator?				
- Is there a boom radius indicator?				
- Are lifting gear controls well-marked?				
- Do controls automatically return to off position?				
- Is the cab fitted with a windshield wiper?				
- Is the cab fitted with dead man controls?				
Other:				



Operational / Proof Test Load Items	Remark
What is the SWL of the lifting gear? (Main, aux, whip, boom, etc.)	
What is the test load weight?	
How were test loads applied and verified? Provide certification of load.	
What is the boom length?	
What is the effective boom radius?	
Was the test conducted at the minimum, maximum, and intermediate radii? (Record actual radii)	
Were test loads slewed, luffed, and hoisted?	
After test, were any damages observed to lifting gear?	
Other:	

Inspection Results	Yes	No	N/A	Remark
Were there any deficiencies?				
Was deficiency rectification discussed with a vessel owner's representative?				
Was the lifting gear book stamped?				
Was an ICGB Form 10 signed and stamped, and a copy provided to the owner's representative?				
Did the owner's representative sign and acknowledge ICGB Form 16?				
Other:				



Other Remarks:

Job aid completed by:	
Job aid completion date:	
Inspector signature:	

Supplemental References:

- International Labour Organization – Register of Lifting Appliances and Items of Loose Gear
- American Bureau of Shipping – Guide for Certification of Cranes
- Bureau Veritas – Rules for the Classification and Certification of Lifting Appliances of Ships and Offshore Units
- American Petroleum Institute – Recommended Practice for Operation and Maintenance of Offshore Cranes, API RP 2D
- Federal regulations including, but not limited to the following:
 - Title 46 CFR Chapter I, Subchapter D, Part 31, Subpart 31.10-16
 - Title 29 CFR 1910 Subpart N & O; 1915 Subpart G; 1917.42; 1917.45-47