

Offshore Supply Vessel Inspector (OI)**Drydock Examination****Topside Equipment Inspection (TE)****OSV - Liftboat****Task:** OIA-TE01 Examine jacking systems**Condition:** *During drydock inspection***Standard:** *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 134 OSVs - Added Provisions for Liftboats
 2. CG-543 Policy Letter 07-02 Guidance on the Inspection, Repair & Maintenance of Liftboats
 3. NVIC 08-91 Initial & Subsequent Inspection of Existing, Uncertificated Offshore Supply Vessels, Including Liftboats

Steps		References	Initials
TE01.1	Inspect leg racks	CG-543 Policy Ltr 07-02	
TE01.2	Inspect drive motors	CG-543 Policy Ltr 07-02	
TE01.3	Inspect drive pinions	CG-543 Policy Ltr 07-02	
TE01.4	Inspect planetary gears	CG-543 Policy Ltr 07-02	
TE01.5	Verify operation of level indicator (tilt) alarm	NVIC 08-91	
TE01.6	Verify operation of jacking controls and safety interlock (dead man) switch	46 CFR 134.150(b) CG-543 Policy Ltr 07-02	

Verifying Officer Guidance: *Trainee shall demonstrate a working knowledge of equipment's components and the proper examination procedures to follow.*

Inspector's Name: (Last, First, Initial)**EMPLID:****Verifying Officer's Signature:****Date:**

Offshore Supply Vessel Inspector (OI)**Certificate of Inspection****Topside Equipment Inspection (TE)****OSV - Liftboat****Task:** OIA-TE02 Examine hydraulic lifting (self elevating) system(s)**Condition:** During topside equipment and ground tackle inspection**Standard:** In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 58 Main & Auxiliary Machinery & Related Systems
 2. Title 46, Code of Federal Regulations Part 127 OSVs - Construction & Arrangements
 3. ABS Guide for Building and Classing Liftboats (July 2014) Part 4 - Machinery & Systems
 4. CG-543 Policy Letter 07-02 Guidance on the Inspection, Repair & Maintenance of Liftboats

Steps		References	Initials
TE02.1	Inspect prime movers/motors and pump(s)	CG-543 Policy Ltr 07-02 46 CFR 58.30-15(f)	
TE02.2	Inspect piping and hose(s)	CG-543 Policy Ltr 07-02 46 CFR 58.30-15(b) 46 CFR 58.30-20	
TE02.3	Inspect fail-safe braking system	CG-543 Policy Ltr 07-02 46 CFR 58.30-50(a)(5)	
TE02.4	Inspect reservoirs	46 CFR 127.210 ABS Guide Part 4 5-6/1.1 ABS Guide Part 4 5-4/1.1.2 & 1.3	
TE02.5	Inspect hoses and verify 5 year change requirement	CG-543 Policy Ltr 07-02	
TE02.6	Verify operation of hydraulic system alarms	CG-543 Policy Ltr 07-02	
TE02.7	Verify gearbox oil samples have been analyzed	CG-543 Policy Ltr 07-02	
TE02.8	Witness test of audible and visual alarms	46 CFR 134.50(b)	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of equipment's arrangements, components and safe operation. Also, have a basic understanding of engineering principles and concepts. For trainees without prior engineering experience or training, they may find it valuable to complete the on-line Machinery Inspector course.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Offshore Supply Vessel Inspector (OI)

Certificate of Inspection

Topside Equipment Inspection (TE)

OSV - Liftboat

Task: OIA-TE03 Inspect freeboard markings

Condition: *During topside equipment and ground tackle inspection*

Standard: *In compliance with applicable policies, laws, regulations and standards*

- References:**
1. Title 46, Code of Federal Regulations Part 134 OSVs - Added Provisions for Liftboats
 2. Title 46, Code of Federal Regulations Part 174 Subdivision & Stability - Specific Vessel Types

Steps		References	Initials
TE03.1	Verify markings are permanently affixed and color coded	46 CFR 134.160 46 CFR 174.260(a)	
TE03.2	Verify markings are not submerged	46 CFR 174.260(b)	

Verifying Officer Guidance:



Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date:

Offshore Supply Vessel Inspector (OI)**Drydock Examination****Hull Examination (HE)****OSV - Liftboat****Task:** OIA-HE01 Conduct leg inspection**Condition:** During dry-dock inspection**Standard:** In compliance with applicable policies, laws, regulations and standards

References:

1. Title 46, Code of Federal Regulations Part 134 OSVs - Added Provisions for Liftboats
2. CG-543 Policy Letter 07-02 Guidance on the Inspection, Repair & Maintenance of Liftboats

Steps		References	Initials
HE01.1	Inspect leg deflection and structural integrity	46 CFR 134.120 CG-543 Policy Ltr 07-02	
HE01.2	Inspect leg and pad connections	46 CFR 134.120 CG-543 Policy Ltr 07-02	
HE01.3	Inspect hull to jacking tower connections	46 CFR 134.120 CG-543 Policy Ltr 07-02	
HE01.4	Verify leg removal and inspection intervals	CG-543 Policy Ltr 07-02	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of vessel construction & repair nomenclature including scantlings/structural members. It is critical to review the required NDT results of the leg to pad connections.

Inspector's Name: (Last, First, Initial)

EMPLID:

Verifying Officer's Signature:

Date:

Offshore Supply Vessel Inspector (OI)**Drydock Examination****Welding Repair (WR)****OSV - Liftboat**

Task: OIA-WR01 Evaluate structural repair proposals for compliance with minimum standards

Condition: During examination of repair work

Standard: In compliance with applicable policies, laws, regulations and standards

- References:**
1. Title 46, Code of Federal Regulations Part 42 Load Lines - Domestic & Foreign Voyages by Sea
 2. Title 46, Code of Federal Regulations Part 134 OSVs - Added Provisions for Liftboats
 3. ABS Rules for Building and Classing Mobile Offshore Drilling Units (1994) Part 3 - Hull Construction & Equipment
 4. Vessel Operating Manual

Steps		References	Initials
WR01.1	Review repair proposal	46 CFR 134.140 ABS Rules Part 3 3/2	
WR01.2	Verify repair materials	46 CFR 134.140 46 CFR 134.170(b)(15) Operating Manual	
WR01.3	Verify welding procedures for high strength steel (when applicable)	46 CFR 134.140 46 CFR 42.09-50(c) ABS Rules Part 3 3/2	

Verifying Officer Guidance: Trainee shall demonstrate a working knowledge of acceptable structural repair standards, processes and procedures. Trainee shall demonstrate a working knowledge of the elements of a WPQ and a WPS - especially when high strength steel is used. Liftboat repair proposals are critical regarding material selection. Due to the availability of materials, Owner's/Operator's may wish to use a different type of steel and or scantling. This should be carefully evaluated so as not to affect the overall weight of the vessel. Additionally, high strength steels have very lengthy allied process that must be followed. Trainee should be familiar with the basics of these processes.

Inspector's Name: (Last, First, Initial)	EMPLID:
Verifying Officer's Signature:	Date: